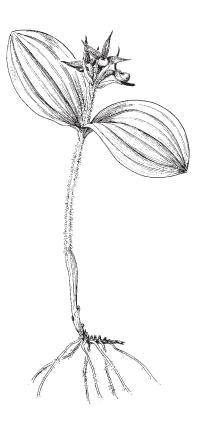


A program of the Natural Resource Information System, Montana State Library

# Plant Species of Concern

June 2001

# Introduction



Clustered lady's slipper (Cypripedium fasciculatum)

Illustration by Jeanne R. Janish From: Vascular Plants of the Pacific Northwest by Hitchcock et al. The Montana Natural Heritage Program (MTNHP) serves as the state's clearinghouse and principle source for information on species of concern, including those that are at-risk or potentially at-risk due to rarity, restricted distribution, habitat loss, and/or other factors. This report identifies 337 vascular plant species of concern in Montana, and 215 vascular plants of potential concern, based on information gathered from field inventories, publications and reports, herbarium specimens, and the knowledge of Montana botanists. Also included are preliminary Heritage ranks for 111 bryophyte species and 114 lichen species considered rare in Montana, based on recent work by experts.

This report updates and replaces the 1999 list published by MTNHP (Heidel 1999), and includes 16 new species of concern (11 vascular and 5 bryophytes). Another 13 species have been dropped as species of concern (7 vascular and 6 bryophytes) (see page iv). Species new to the lists are **bolded and underlined**. State ranks that have been upgraded or downgraded are also **bolded and underlined**. Changes in global ranks are not highlighted. Also provided are federal designations under the U.S. Endangered Species Act and administrative designations assigned by the U.S. Forest Service or Bureau of Land Management.

The Montana Natural Heritage Program continuously reviews and updates status ranks as new information and insights are generated by field surveys, research, and observations. Changes made between publications are reflected in data on the MTNHP website: http://nhp.nris.state.mt.us/. The on-line "Rare Plant Field Guide" also provides information on species' characteristics, identification, habitat, distribution, and references, as well as technical illustrations and photographs of the plants and their habitats. Data on plant species of concern can be queried on-line by county, topographic quadrangle (7.5') and public land management unit. Adobe versions of selected MTNHP reports are also available. A link to the NatureServe website provides access to information assembled from Natural Heritage

#### **Table of Contents**

Introductioni	Preliminary Ranks for Nonvascular Plant Species
Map of Montana Countiesv	Bryophyte List30
Vascular Plant Species of Concern	Lichen List33
Plant Species of Potential Concern	Appendices
Introduction24	Forest Service Sensitive Plant List 36
Potential Concern List	BLM Sensitive Plant List
	Survey Form37

Program databases throughout North America (http://www.natureserve.org/). More detailed information or additional assistance can be requested using the "Information Request Form" on the website, or by phone, email or mail.

Please help us expand the knowledge base for Montana's rare plants and improve this list by submitting information on plant species of concern. The field survey form included at the end of this publication (also on our website) identifies optimal information that should be submitted whenever possible.

#### **How To Read The Lists**

The lists are organized alphabetically by scientific name. For vascular plants of concern, family and common names are also provided. The nomenclature we've used is moving toward consistency with taxonomic treatments in Flora of North America (FNA Editorial Committee 1993+).

#### Heritage Program Ranks

The international network of Natural Heritage Programs employs a standardized ranking system to denote **global** (range-wide) and **state** status (Association for Biodiversity Information 2001). Species are assigned numeric ranks ranging from 1 (critically imperiled) to 5 (demonstrably secure), reflecting the relative degree to which they are "at-risk". Rank definitions are given below. A number of factors are considered in assigning ranks — the number, size and distribution of known "occurrences" or populations, population trends (if known), habitat sensitivity, and threat. Factors in a species' life history that make it especially vulnerable are also considered (e.g., dependence on a specific pollinator).

As an example, Clustered lady's-slipper (Cypripedium fasciculatum) is ranked G4 S2. Globally the species is apparently secure, but it occurs in Montana at the periphery of its range. It is known in the state from 25 occurrences, most small, and occupies a very specific habitat in mid-seral upland forests that have become denser than they were historically.

#### Rank Definition

G1 S1 Critically imperiled because of extreme rarity and/or other factors making it highly vulnerable to extinction.

- G2 S2 Imperiled because of rarity and/or other factors making it vulnerable to extinction
- G3 S3 Vulnerable because of rarity or restricted range and/or other factors, even though it may be abundant at some of its locations
- G4 S4 Apparently secure, though it may be quite rare in parts of its range, especially at the periphery.
- G5 S5 Demonstrably secure, though it may be quite rare in parts of its range, especially at the periphery.
- GU SU Possibly imperiled, but status uncertain; more information needed.
- GA SA Native in nearby states, but in Montana believed to be accidentally introduced, deliberately planted, or escaped from plantings.
- GH SH Historical, known only from records over 50 year ago; may be rediscovered
- GX SX Believed to be extinct; historical records only.

#### **Combination Ranks**

G#G# or S#S#

Indicates a range of uncertainty about the rarity of the species.

#### **Subrank**

T# Rank of a subspecies or variety; appended to the species' global rank of the full species, e.g. G4T3.

#### Qualifiers

- Q Taxonomic questions or problems exist, more information needed; appended to the global rank, e.g. G3Q.
- ? Denotes uncertainty or for numeric ranks, inexactness.

# **Federal Designations**

#### FISH AND WILDLIFE SERVICE STATUS

(U.S. Endangered Species Act)

This column indicates the status of a taxon under the federal Endangered Species Act of 1973 (16 U.S.C.A. § 1531-1543 (Supp. 1996)). Note: The *Category 2 Candidates* designation was dropped in 1996 by the USFWS, and former *Candidate 2* species no longer have any formal status under ESA. Regulatory aspects of the Endangered Species Act affect plants only when they occur on federal lands or are affected by federal actions.

- LE Listed endangered (no Montana plants)
- LT Listed threatened (two Montana plants)
- P Proposed endangered or threatened (one Montana plant)
- C Candidate with listing warranted but precluded (one Montana plant)

#### FOREST SERVICE STATUS

The status of sensitive species on Forest Service lands is defined by the U.S. Forest Service Manual (2670.22). The Regional Forester (Northern Region) designates sensitive species on National Forests in Montana; these designations were last updated in 1999, and a full list is included on page 36. They apply only on USFS-administered lands.

S sensitive species, subspecies or variety, for which the Regional Forester has determined there is a concern for population viability rangewide or in the region

#### **BUREAU OF LAND MANAGEMENT STATUS**

The status of species on Bureau of Land Management Lands is defined by the BLM 6840 Manual. These designations were assigned by the Montana State Office of the BLM in 1996, and a full list is included on page 36. They apply only on BLM-administered lands.

- S sensitive species are proven imperiled in at least part of their ranges and documented to occur on BLM lands.
- W watch species are either known to be imperiled and suspected to occur on BLM lands, sus-

pected to be imperiled and documented on BLM lands, or needing further study for other reasons.

#### **County Distribution**

This column summarizes the Montana distribution by county, based on records currently in the MTNHP databases. Counties are abbreviated by the first four letters of the name, except in the case of Yellowstone National Park, which is designated by YNPK. Distribution may include records that are historic, extirpated, or which are very general within the county. For many non-vascular plants, collections and published records have not yet been assembled and entered into the MTNHP databases; hence counties of occurrence cannot be listed.

#### Range Notes

Because state and rangewide distribution patterns are important in assessing and understanding species' status, we have categorized distribution patterns in "range notes" for vascular species of concern.

- SE State Endemic known to occur only in Montana
- RE Regional Endemic restricted to the region, occurring in Montana and just one or very few other states
- D Disjunct occurs in Montana well outside the principle or normal range of the species, by distances that preclude gene flow
- P Peripheral occurs in Montana at the outer margins of its contiguous range
- S Sparse Montana is part of a larger range in which the species is sparsely or unevenly distributed

# Additions to the Species of Concern List

#### VASCULAR PLANTS

Acorus americanus Astragalus racemosus var. racemosus

- \*Carex chalciolepis
- \*Carex lacustris

Cryptantha humilis
Githopsis specularioides
Lesquerella douglasii
Mimulus ringens
\*Papaver pygmaeum
Salix cascadensis
Viola selkirkii

\*(Upgraded from 1999 Watch Status)

#### **NONVASCULAR PLANTS**

Andreaea blyttii
Barbula eustegia
Ditrichum ambiguum
Drepanocladus cardotti
Hamatocaulis vernicosus
Lichens

#### **Deletions From Species of Concern List**

#### **VASCULAR PLANTS**

- \*Aster glaucodes
- \*Astragalus racemosus var. longisetus
- \*Carex paupercula
- \*Psoralea hypogaea Salix wolfii var wolfii
- \*Senecio eremophilus var. eremophilus Viola renifolia

#### **NONVASCULAR PLANTS**

Bartramia stricta
Polytrichum lyallii
Pterygoneurum subsessile
Tetraplodon angustatus
Tortula caninervis
Trachybryum megaptilum

#### Acknowledgements

We want to extend great appreciation to the many persons who contributed information on plant species throughout Montana over the past two years – those contributions are the building blocks of the MTNHP databases and this report. Special thanks goes to the botanists who reviewed and provided comments on changes to listings and status ranks including, Maria Mantas, Steve Shelly, Toby Spribille, Jennifer Whipple, Linda Pietarinen, Peter Lesica and Roger Ferriel. We're also especially grateful to Joe Elliot, Bruce

McCune and Roger Rosentreter who provided extensive information and input that formed the basis for ranking nonvascular plants.

Finally, a big thanks to Joy Lewis and Katrina Scheuerman for their patience, creativity and many hours of text editing, proofing, design and layout to produce this final document.

#### Selected References

Association for Biodiversity Information. 2001.

NatureServe. Conservation status rank definitions posted at http://www.natureserve.org/
Arlington, Virginia.

Dorn, R. D. 1984. Vascular Plants of Montana. Mountain West Publishing, Cheyenne, WY. 276 pp.

Flora of North America Editorial Committee, eds. 1993+ Flora of North America North of Mexico. 4+ vols. New York and Oxford.

Heidel, B. 1999. Montana plant species of Special concern. Montana Natural Heritage Program, Helena. 26pp.

Lesica, P., G. Moore, K. M. Peterson, and J. H. Rumely. 1984. Vascular plants of limited distribution in Montana. Montana Academy of Science Monograph No. 2.

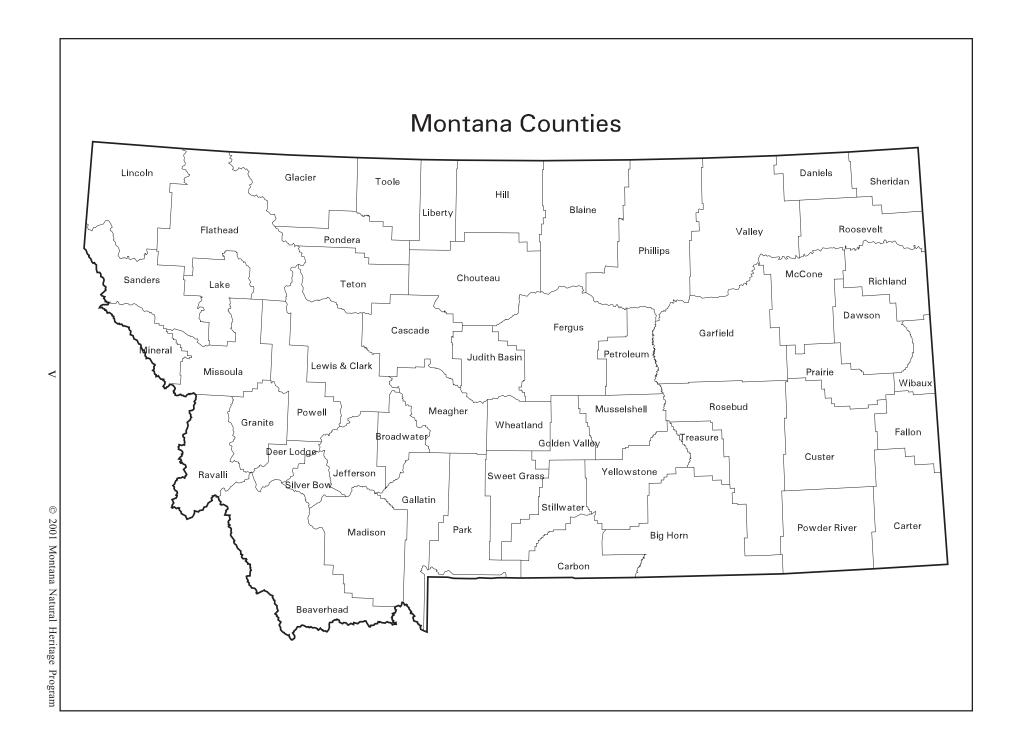
Lesica, P. and J. S. Shelly. 1991. Sensitive, threatened and endangered vascular plants of Montana. Montana Natural Heritage Program, Montana State Library, Helena, Montana.

The preferred citation for this document is:

Heidel, B. 2001. Plant Species of Concern. Montana Natural Heritage Program, Helena. 38 pp.

The Montana Natural Heritage Program 1515 East Sixth Avenue Helena, MT 59620-1800 (406) 444-5354 Fax (406) 444-0581 http://nhp.nris.state.mt.us/ Email Address: mtnhp@state.mt.us

<sup>\*(</sup>Downgraded to Potential Concern)



	vasculai i la	in openies of C	Officer	i, Juiic	2001			
Scientific Name Common Name	Family	Global Rank	State Rank	FWS Status	FS Status	BLM Status	County Distribution	Range Notes
Acorus americanus	Acoraceae	G5	<b>S</b> 1				FLAT, LAKE	P
Sweetflag								
Adoxa moschatellina	Adoxaceae	G5	<u>S2</u>		S	W	CARB, GRAN, JEFF, MADI, STIL	S
Musk-root								
Agastache cusickii	Lamiaceae	G3G4	<b>S</b> 1		S	S	BEAV	RE
Cusick's Horse-mint								
Allium acuminatum	Liliaceae	G5	<b>S</b> 1		S		MADI, RAVA, SAND	P
Tapertip Onion								
Allium columbianum	Liliaceae	G3	<b>S</b> 1				SAND	D
Columbia Onion								
Allium parvum	Liliaceae	G5	S2		S		RAVA	P
Small Onion								
Allium simillimum	Liliaceae	G4	<b>S</b> 1				GALL, RAVA	RE
Dwarf Onion								
Allotropa virgata	Monotropaceae	G4	<b>S</b> 3		S		BEAV, DEER, GRAN, RAVA	D
Candystick								
Alnus rubra	Betulaceae	G5	<b>S</b> 1				LINC	D
Red Alder								
Amerorchis rotundifolia	Orchidaceae	G5	S2S3		S	W	FLAT, GLAC, LEWI, LINC, POND,	P
Round-leaved Orchis							POWE, TETO	
Ammannia coccinea	Lythraceae	G5	SH				GARF, PHIL	S
Scarlet Ammannia								
Amorpha canescens	Fabaceae	G5	SH				CART, ROSE	P
Lead Plant								
Antennaria densifolia	Asteraceae	G3	<b>S</b> 1		S		DEER, GRAN	D
Dense-leaved Antennaria								
Aquilegia brevistyla	Ranunculaceae	G5	S2		S		JUDI, SWEE	D
Short-styled Columbine								
Aquilegia formosa	Ranunculaceae	G5	<b>S</b> 1				BEAV, MADI	P
Sitka Columbine								

Scientific	Name
------------	------

Common Name	Family	Global Rank	State Rank	FWS Status	FS Status	BLM Status	<b>County Distribution</b>	Range Notes
Arabis demissa var languida	Brassicaceae	G5T4	<b>S</b> 1			W	CARB	P
Daggett Rock Cress								
Arabis fecunda	Brassicaceae	G2	S2		S	S	BEAV, RAVA, SILV	SE
Sapphire Rockcress								
Arabis lyrata var kamchatica	Brassicaceae	G5T5?	<u>SH</u>				FLAT	P
Lyre-leaf Rockcress								
Arctostaphylos patula	Ericaceae	G4	<b>S</b> 1				LAKE, SAND	D
Green-leaf Manzanita								
Asclepias incarnata	Asclepiadaceae	G5	<b>S</b> 1				CARB, FALL	P
Swamp Milkweed								
Asclepias ovalifolia	Asclepiadaceae	G5?	<b>S</b> 1		S	W	CART, SHER	P
Ovalleaf Milkweed								
Asclepias stenophylla	Asclepiadaceae	G4G5	<b>S</b> 1			W	CART, ROSE	P
Narrowleaf Milkweed								
Asplenium trichomanes	Aspleniaceae	G5	SX				FLAT	S
Maidenhair Spleenwort								
Aster frondosus	Asteraceae	G4	<b>S</b> 1				SAND	P
Alkali Aster								
Astragalus aretioides	Fabaceae	G4	S2			W	BIGH, CARB	RE
Sweetwater Milkvetch								
Astragalus barrii	Fabaceae	G3	<b>S</b> 3		S	W	BIGH, CART, POWD, ROSE	RE
Barr's Milkvetch								
Astragalus ceramicus var apus	Fabaceae	G4T3	<b>S</b> 1			S	BEAV	RE
Painted Milkvetch								
Astragalus convallarius var convallarius	Fabaceae	G5T5	S2			W	BEAV, BROA, JEFF, LEWI	P
Lesser Rushy Milkvetch								
Astragalus geyeri var geyeri	Fabaceae	G4?T4?	S2			S	CARB, CUST, DAWS, GARF	D
Geyer's Milkvetch								
Astragalus grayi	Fabaceae	G4?	<u>S2</u>				CARB	RE
Gray's Milkvetch								

Scientific Name			State	FWS	FS	BLM		Range
Common Name	Family	Global Rank			Status		<b>County Distribution</b>	Notes
Astragalus lackschewitzii	Fabaceae	G2	S2		S		TETO	RE
Lackschewitz' Milkvetch								
Astragalus oreganus	Fabaceae	G4?	<b>S</b> 1			W	CARB	RE
Wind River Milkvetch								
Astragalus racemosus var racemosus	Fabaceae	G5T5	S2				CART, FALL	P
Raceme Milkvetch								
Astragalus scaphoides	Fabaceae	G3	S2		S	S	BEAV	RE
Bitterroot Milkvetch								
Astragalus terminalis	Fabaceae	G3	S2			S	BEAV, MADI	RE
Railhead Milkvetch								
Athysanus pusillus	Brassicaceae	G4	<b>S</b> 1		S		RAVA	P
Sandweed								
Atriplex truncata	Chenopodiaceae	G5	<u>S1</u>			W	BEAV, DEER, LAKE, LEWI, PARK	S
Wedge-leaved Saltbush								
Bacopa rotundifolia	Scrophulariaceae	G5	<b>S</b> 1			W	CASC, FERG, GARF, PHIL	S
Roundleaf Water-hyssop								
Balsamorhiza hookeri	Asteraceae	G5	S1				BEAV	P
Hooker's Balsam-root								
Balsamorhiza macrophylla	Asteraceae	G3G5	<b>S</b> 1		S	W	BEAV, GALL, MADI	P
Large-leafed Balsamroot								
Bidens beckii	Asteraceae	G4	SU		S		FLAT, LAKE, LINC, MISS	P
Beck Water-marigold								
Boisduvalia densiflora	Onagraceae	G5	SH				SAND	P
Dense Spike-primrose								
Botrychium ascendens	Ophioglossaceae	G3	<b>S</b> 1		S		FLAT, GLAC, LAKE, LEWI, LINC	S
Upward-lobed Moonwort								
Botrychium campestre	Ophioglossaceae	G3	S1				FLAT	S
Prairie Dunewort								
Botrychium crenulatum	Ophioglossaceae	G3	S2		S		FLAT, GRAN, LAKE, LINC, MISS,	S
Wavy Moonwort							SAND	

Scientific Name			State	FWS	FS	BLM		Range
Common Name	Family	Global Rank					<b>County Distribution</b>	Notes
Botrychium hesperium	Ophioglossaceae	G3	S2		S		DEER, FLAT, GLAC, LINC	S
Western Moonwort								
Botrychium lineare	Ophioglossaceae	G1G2	S1				GLAC, LAKE	S
Linearleaf Moonwort								
Botrychium montanum	Ophioglossaceae	G3	<b>S</b> 3		S		FLAT, LAKE, LINC, MISS, SAND	S
Mountain Moonwort								
Botrychium pallidum	Ophioglossaceae	G2G3	<b>S</b> 1				FLAT, LINC	S
Pale Moonwort								
Botrychium paradoxum	Ophioglossaceae	G3	<b>S</b> 2		S		DEER, FLAT, GLAC, GRAN, JEFF,	S
Peculiar Moonwort							LINC, POND, TETO	
Botrychium pedunculosum	Ophioglossaceae	G3	<b>S</b> 1		S		FLAT, LINC, SAND	S
Stalked Moonwort								
Botrychium spathulatum	Ophioglossaceae	G3	<b>S</b> 1				LAKE	S
Spoon-leaf Moonwort								
Brasenia schreberi	Cabombaceae	G5	<b>S</b> 2		S		FLAT, LAKE, LINC, MISS	S
Watershield								
Braya humilis	Brassicaceae	G5	<b>S</b> 1				BEAV	S
Low Braya								
Calochortus bruneaunis	Liliaceae	G5	SH				BEAV	P
Bruneau Mariposa Lily								

G4

G5

G5T?

G4

<u>G5</u>

S1

**S**1

S1

S1

<u>S1</u>

Onagraceae

Onagraceae

Brassicaceae

Cyperaceae

Cyperaceae

Camissonia andina

Camissonia parvula

Carex amplifolia

Big-leaf Sedge

Carex chalciolepis

Copper-scale Sedge

Small Camissonia

Few-seeded Bittercress

Obscure Evening-primrose

Cardamine oligosperma var kamtschatica

P

P

P

P

P

CARB, MISS, RAVA

S

S

**CARB** 

**SAND** 

RAVA

FLAT, RAVA

Scientific Name			State	FWS	FS	BLM		Range
Common Name	Family	Global Rank			Status		<b>County Distribution</b>	Notes
Carex chordorrhiza	Cyperaceae	G5	S2		S		FLAT, LINC, POWE	P
Creeping Sedge								
Carex comosa	Cyperaceae	G5	<b>S</b> 1				FLAT	S
Bristly Sedge								
Carex crawei	Cyperaceae	G5	S2			S	CASC, POND, POWE, PRAI, TETO	S
Craw's Sedge								
Carex gravida var gravida	Cyperaceae	G5T5?	<b>S</b> 1		S	W	BIGH, POWD, ROSE	P
Pregnant Sedge								
Carex incurviformis var incurviformis	Cyperaceae	G4G5T4T5	S1				DEER, GLAC, MADI, TETO	S
Maritime Sedge								
<u>Carex lacustris</u>	Cyperaceae	G5	<u>S1</u>				LAKE	D
Lake-bank Sedge								
Carex lenticularis var dolia	Cyperaceae	G5T3Q	S2				FLAT, GLAC	RE
Goose-grass Sedge								
Carex livida	Cyperaceae	G5	<b>S</b> 3		S		FLAT, GLAC, LAKE, LEWI, MISS,	P
Pale Sedge							POWE, TETO	
Carex multicostata	Cyperaceae	G5	S1			W	BEAV, GALL, PARK	P
Many-ribbed Sedge								
Carex norvegica ssp inserrulata	Cyperaceae	G5T?Q	<b>S</b> 1				CARB, PARK, STIL	D
Toothed Scandinavian Sedge								
Carex norvegica ssp stevenii	Cyperaceae	G5T?	<b>S</b> 1				BEAV, DEER	P
Steven's Scandinavian Sedge								
Carex occidentalis	Cyperaceae	G4	SH			W	BEAV	P
Western Sedge								
Carex pallescens	Cyperaceae	G5	<b>S</b> 1				RAVA	D
Palish Sedge								
Carex parryana ssp idahoa	Cyperaceae	G2Q	S2		S	S	BEAV, GALL, MADI, POWE, SILV	RE
Idaho Sedge								
Carex petricosa	Cyperaceae	G4	<b>S</b> 1				GLAC	P
Rock Sedge								

Scientific Name Common Name	Family	Global Rank	State Rank	FWS Status	FS Status	BLM Status	County Distribution	Range Notes
Carex prairea	Cyperaceae	G5?	<u>S2</u>		S		FLAT, LINC	P
Prairie Sedge								
Carex rostrata	Cyperaceae	G5	<b>S</b> 1		S		FLAT, LINC, MISS	P
Beaked Sedge								
Carex scoparia	Cyperaceae	G5	S2				MISS, RAVA	S
Pointed Broom Sedge								
Carex stenoptila	Cyperaceae	G2	S2				CARB, FLAT, MADI, RAVA, STIL,	S
Small-winged Sedge							SWEE, YNPK	
Carex sychnocephala	Cyperaceae	G4	<b>S</b> 1				CASC, GLAC, LAKE, LINC, SHER	S
Many-headed Sedge								
Carex tenuiflora	Cyperaceae	G5	<b>S</b> 1				FLAT	P
Thin-flowered Sedge								
Carex tincta	Cyperaceae	G4G5	SU				GLAC, LAKE, PARK	P
Slender Sedge								
Carex vaginata	Cyperaceae	G5	<b>S</b> 1		S		LINC	P
Sheathed Sedge								
Castilleja cervina	Scrophulariaceae	G3G4	<b>S</b> 1				FLAT, MISS, POWE	RE
Deer Indian Paintbrush								
Castilleja covilleana	Scrophulariaceae	G3G4	S2		S		RAVA	RE
Coville Indian Paintbrush								
Castilleja exilis	Scrophulariaceae	G5	S2				BROA, DEER, GALL, JEFF, MADI,	P
Annual Indian Paintbrush							PARK, YNPK	
Castilleja gracillima	Scrophulariaceae	G3G4Q	S2		S	W	GALL, MADI, PARK, YNPK	RE
Slender Indian Paintbrush								
Ceanothus herbaceus	Rhamnaceae	G5	SH			W	POWD	P
New Jersey Tea								
Celastrus scandens	Celastraceae	G5	<b>S</b> 1			W	DAWS	P
Bittersweet								
Centaurium exaltatum	Gentianaceae	G5	SH				BIGH	S
Western Centaury								

Scientific Name		_	State	FWS	FS	BLM		Range
Common Name	Family	Global Rank					<b>County Distribution</b>	Notes
Centunculus minimus Chaffweed	Primulaceae	G5	<u>S2</u>			W	CASC, LAKE, MISS, PHIL, RAVA, SHER, VALL	S
Cercocarpus montanus var glaber Birchleaf Mountain-mahogany	Rosaceae	G5TU	<b>S</b> 1			W	TREA	P
Chenopodium subglabrum Smooth Goosefoot	Chenopodiaceae	G3G4	S1			W	CART, CASC, CUST, POWD, SHER	S
Chrysosplenium tetrandrum Northern Golden-carpet	Saxifragaceae	G5	<b>S</b> 3				GRAN, RAVA	P
Chrysothamnus parryi ssp montanus Parry's Mountain Rabbitbrush	Asteraceae	G5T1	<b>S</b> 1				BEAV	RE
Cirsium brevistylum Short-styled Thistle	Asteraceae	G4	S2				FLAT, MINE, SAND	P
Cirsium longistylum  Long-styled Thistle	Asteraceae	G2Q	S2		S		BROA, CASC, JEFF, JUDI, LEWI, MEAG, WHEA	SE
Clarkia rhomboidea Common Clarkia	Onagraceae	G5	S2		S		LINC, SAND	P
Claytonia arenicola Sand Springbeauty	Portulacaceae	G4	<b>S</b> 1		S		SAND	P
Cleome lutea Yellow Bee Plant	Capparaceae	G5	S1			W	BIGH, CARB	P
Collomia tinctoria Yellow-staining Collomia	Polemoniaceae	G5	S1				CASC, FLAT, LAKE, RAVA	P
Corydalis sempervirens Pale Corydalis	Fumariaceae	G4G5	S1				FLAT, GLAC, LINC	P
Cryptantha fendleri Fendler Cat's-eye	Boraginaceae	G4	<u>S2</u>			W	BEAV, SHER	S
Cryptantha humilis  Round-headed Cryptantha	Boraginaceae	G4?	SH			W	BEAV, PARK	P
Cryptantha scoparia Miner's Candle	Boraginaceae	G4?	S1			S	CARB	D

Scientific Name			State	FWS	FS	BLM		Range
Common Name	Family	Global Rank	Rank	Status	Status	Status	<b>County Distribution</b>	Notes
Cyperus acuminatus	Cyperaceae	G5	<b>S</b> 1			W	CASC, SAND	S
Short-pointed Flatsedge								
Cyperus erythrorhizos	Cyperaceae	G5	SH				FLAT, MISS	S
Red-root Flatsedge								
Cyperus rivularis	Cyperaceae	G5	<b>S</b> 1				MISS, RAVA	S
Shining Flatsedge								
Cyperus schweinitzii	Cyperaceae	G5	S2			W	CART, CASC, CUST, POWD, SHER	P
Schweinitz' Flatsedge								
Cypripedium fasciculatum	Orchidaceae	G4	S2		S		LAKE, MINE, SAND	P
Clustered Lady's-slipper								
Cypripedium parviflorum	Orchidaceae	G5	<b>S</b> 3		S	W	FLAT, GALL, GRAN, JUDI, LAKE,	S
Small Yellow Lady's-slipper							LEWI, LINC, MISS, PARK, STIL, SWEE, TETO	
Cypripedium passerinum	Orchidaceae	G4G5	S2		S		FLAT, GLAC, LAKE, LEWI, LINC,	P
Sparrow's-egg Lady's-slipper							POND, POWE, TETO	
Cystopteris montana	Dryopteridaceae	G5	SH				GLAC	P
Mountain Bladder Fern								
Dalea enneandra	Fabaceae	G5	<b>S</b> 1			W	CUST, RICH	P
Nine-anther Dalea								
Dalea villosa var villosa	Fabaceae	G5T?	<b>S</b> 1			W	CART, RICH, SHER	P
Silky Prairie Clover								
Dichanthelium oligosanthes var scribnerianum	Poaceae	G5T5	<b>S</b> 1			W	LAKE, POWD	S
Scribner's Panic Grass								
Downingia laeta	Campanulaceae	G5	<b>S</b> 1			W	BEAV, LEWI, TETO	S
Great Basin Downingia								
Draba densifolia	Brassicaceae	G5	S2				FLAT, GLAC, JEFF, LEWI, PARK,	S
Dense-leaf Draba							POND, SILV	
Draba fladnizensis var pattersonii	Brassicaceae	G4T2T3	<b>S</b> 1				CARB, DEER, MADI, STIL	S
White Arctic Draba								
Draba globosa	Brassicaceae	G3	<b>S</b> 1			W	BEAV, MADI	RE
Round-fruited Draba								

Scientific Name		-	State	FWS	FS	BLM		Range
Common Name	Family	Global Rank					<b>County Distribution</b>	Notes
Draba macounii	Brassicaceae	G3G4	S1				FLAT, GLAC	P
Macoun's Draba								
Draba porsildii var porsildii	Brassicaceae	G3G4T3T4	<b>S</b> 1				CARB, MADI	D
Porsild's Draba								
Draba ventosa	Brassicaceae	G3	<b>S</b> 1				BEAV, MADI	S
Wind River Draba								
Drosera anglica	Droseraceae	G5	S2		S		FLAT, GALL, LAKE, LEWI, LINC,	S
English Sundew							MADI, MISS, PARK, POWE, RAVA,	
Drosera linearis	Droseraceae	G4	S1		S		SAND FLAT, LEWI, POWE	P
Linear-leaved Sundew							,	
Dryas integrifolia	Rosaceae	G5	S1				FERG, GOLD, MADI	P
Entire-leaved Avens								
Dryopteris cristata	Dryopteridaceae	G5	S2		S		FLAT, LAKE, LINC, MISS, RAVA	P
Buckler Fern	, ,							
Eleocharis rostellata	Cyperaceae	G5	S2		S	W	CARB, FLAT, GALL, LAKE, LEWI,	S
Beaked Spikerush							MADI, MEAG, PARK, SAND, SWEE TETO, YNPK	,
Elodea longivaginata	Hydrocharitaceae	G4G5	<u>S2</u>			W	BEAV, GLAC, LIBE, PHIL, STIL	S
Long Sheath Waterweed								
Elymus flavescens	Poaceae	G4	<b>S</b> 1			S	BEAV	P
Sand Wildrye								
Elymus innovatus	Poaceae	G5	<b>S</b> 1		S		CASC, GLAC, POND, TETO	P
Northern Wild-rye								
Epipactis gigantea	Orchidaceae	G4	S2		S	W	CARB, CASC, FLAT, GRAN, LAKE,	S
Giant Helleborine							MADI, POWE, TETO	
Erigeron asperugineus	Asteraceae	G4	<b>S</b> 1		S	W	BEAV, MADI, RAVA	RE
Idaho Fleabane								
Erigeron eatonii ssp eatonii	Asteraceae	G5T5	<b>S</b> 1				LAKE, SWEE	P
Eaton's Daisy								
Erigeron evermannii	Asteraceae	G4	<b>S</b> 1		S		RAVA	RE
Evermann Fleabane		9					© 2001 Montana Natural Heritag	e Program
								_

Scientif	ic N	ame
----------	------	-----

Common Name	Family	Global Rank	State Rank	FWS Status	FS Status	BLM Status	<b>County Distribution</b>	Range Notes
Erigeron formosissimus var viscidus	Asteraceae	G5T4	S1			W	CARB, DEER, MADI, PARK, RAVA	D
Beautiful Fleabane								
Erigeron lackschewitzii	Asteraceae	G3	S3		S		FLAT, LEWI, POND, TETO	RE
Lackschewitz' Fleabane								
Erigeron leiomerus	Asteraceae	G4	<b>S</b> 1				BEAV, MADI	P
Smooth Fleabane								
Erigeron linearis	Asteraceae	G5	S1				BEAV, LEWI, PARK, RAVA, SILV	P
Linearleaf Fleabane								
Erigeron tener	Asteraceae	G4	<b>S</b> 1				BEAV	P
Slender Fleabane								
Eriogonum caespitosum	Polygonaceae	G5	S1				BEAV	P
Mat Buckwheat								
Eriogonum salsuginosum	Polygonaceae	G4?	<b>S</b> 1			S	CARB	P
Smooth Buckwheat								
Eriogonum visheri	Polygonaceae	G3	<b>S</b> 1				CART	RE
Visher's Buckwheat								
Eriophorum callitrix var callitrix	Cyperaceae	G5T?	S1				CARB	S
Sheathed Cotton-grass								
Eriophorum gracile	Cyperaceae	G5	S2		S		FLAT, LAKE, LINC, MADI	P
Slender Cottongrass								
Eupatorium maculatum var bruneri	Asteraceae	G5TU	<u>S2</u>			W	BIGH, CARB	P
Joe-pye Weed								
Eupatorium occidentale	Asteraceae	G4	S2		S		MINE, RAVA	P
Western Boneset								
Euphrasia arctica var disjuncta	Scrophulariaceae	G5	<b>S</b> 1				GLAC	P
Disjunct Eyebright								
Eustoma grandiflorum	Gentianaceae	G5	<b>S</b> 1			W	MCCO	D
Showy Prairie-gentian								
Festuca vivipara	Poaceae	G4G5Q	S2				FLAT, GLAC	P
Viviparous Fescue								
		4.0						

Scientific Name			State	FWS	FS	BLM		Range
Common Name	Family	Global Rank			Status		<b>County Distribution</b>	Notes
Gentiana glauca	Gentianaceae	G4G5	S1				FLAT	P
Glaucous Gentian								
Gentianopsis macounii	Gentianaceae	G5	<b>S</b> 1		S	W	GLAC, TETO	P
Macoun's Gentian								
Gentianopsis simplex	Gentianaceae	G4	<b>S</b> 1		S	W	BEAV, CARB, MISS	P
Hiker's Gentian								
Githopsis specularioides	Campanulaceae	G5	S1					P
Common Blue-cup								
Glossopetalon nevadense	Crossosomataceae	G5?Q	<b>S</b> 1		S		RAVA	P
Spiny Greenbush								
Goodyera repens	Orchidaceae	G5	S3		S		FERG, FLAT, JUDI, MEAG, WHEA	S
Northern Rattlesnake-plantain								
Gratiola ebracteata	Scrophulariaceae	G4	<b>S</b> 1				CASC, FLAT, GLAC, TETO, YELL	S
Bractless Hedge-hyssop								
Grayia spinosa	Chenopodiaceae	G5	S2			W	BEAV, BIGH, CARB, PARK, YNPK	P
Spiny Hopsage								
Grindelia howellii	Asteraceae	G3	S2S3		S		MISS, POWE	RE
Howell's Gum-weed								
Gymnosteris parvula	Polemoniaceae	G4	SH				GALL	P
Small-flower Gymnosteris								
Halimolobos perplexa var lemhiensis	Brassicaceae	G4T4	<b>S</b> 1		S		RAVA	SE
Puzzling Rockcress								
Haplopappus aberrans	Asteraceae	G3	<b>S</b> 1		S		RAVA	RE
Idaho Golden-weed								
Haplopappus carthamoides var subsquarrosus	Asteraceae	G4G5T2T3	S2		S	W	CARB	RE
Beartooth Large-flowered Goldenweed								
Haplopappus macronema var macronema	Asteraceae	G4G5T4	S1		S		BEAV, GALL	P
Discoid Goldenweed								
Haplopappus nanus	Asteraceae	G5	<b>S</b> 1				BEAV	P

Dwarf Goldenweed

Scientific Name
-----------------

Common Name	Family	Global Rank	State Rank	FWS Status	FS Status	BLM Status	County Distribution	Range Notes
Haplopappus pygmaeus	Asteraceae	G4	SH				DEER, GALL	P
Pygmy Goldenweed								
Hemicarpha drummondii	Cyperaceae	G4G5	SH				CARB	P
Drummond's Hemicarpha								
Heteranthera dubia	Pontederiaceae	G5	<b>S</b> 1		S		FLAT, SAND	S
Water Star-grass								
Heterocodon rariflorum	Campanulaceae	G5	<b>S</b> 1		S		LAKE, RAVA, SAND	S
Western Pearl-flower								
Howellia aquatilis	Campanulaceae	G2	S2	LT			LAKE, MISS	S
Water Howellia								
Hutchinsia procumbens	Brassicaceae	G5	<b>S</b> 1			W	BEAV, CARB, POWE	P
Hutchinsia								
Idahoa scapigera	Brassicaceae	G5	<b>S</b> 1		S		RAVA	P
Scalepod								
Ipomopsis congesta ssp crebrifolia	Polemoniaceae	G5T3T4	S2				BEAV	RE
Ballhead Gilia								
Ipomopsis minutiflora	Polemoniaceae	G3	<b>S</b> 1				RAVA	D
Small-flower Standing-cypress								
Juncus acuminatus	Juncaceae	G5	<b>S</b> 1				DEER, TETO	S
Tapered Rush								
Juncus albescens	Juncaceae	G5	S2				FLAT, GLAC	S
Three-flowered Rush								
Juncus covillei var covillei	Juncaceae	G4G5T5	<b>S</b> 1				MINE, MISS, RAVA	P
Coville's Rush								
Juncus covillei var obtusatus	Juncaceae	G4G5T4	<b>S</b> 1				RAVA	P
Coville's Blunt Rush								
Juncus hallii	Juncaceae	G4G5	S2		S		BEAV, MADI, MEAG, POWE, SILV	P
Hall's Rush								
Kalmia polifolia	Ericaceae	G5	<b>S</b> 1		S		FLAT, MISS	P
Pale Laurel								

Scientific Na	ım
Common	N

Common Name	Family	Global Rank	State Rank	FWS Status	FS Status	BLM Status	County Distribution	Range Notes
Kelloggia galioides	Rubiaceae	G5	S1				MINE	P
Kelloggia								
Kobresia macrocarpa	Cyperaceae	G5	<b>S</b> 1				CARB	P
Large-fruited Kobresia								
Kobresia simpliciuscula	Cyperaceae	G5	S2				BEAV, GLAC, GRAN, PARK, TETO	S
Simple Kobresia								
Kochia americana	Chenopodiaceae	G5	<b>S</b> 1				BEAV	P
Red Sage								
Koenigia islandica	Polygonaceae	G4	<b>S</b> 1				CARB	D
Island Koenigia								
Lagophylla ramosissima	Asteraceae	G5	<b>S</b> 1				SAND	P
Slender Hareleaf								
Lathyrus bijugatus	Fabaceae	G4	<b>S</b> 1		S		FLAT, LINC	RE
Latah Tule Pea								
Leptodactylon caespitosum	Polemoniaceae	G4	S2			W	CARB	P
Leptodactylon								
Lesquerella carinata var languida	Brassicaceae	G3G4T1	<b>S</b> 1			S	GRAN	SE
Garnet Bladderpod								
<u>Lesquerella douglasii</u>	Brassicaceae	G4?	<b>S</b> 1				LINC	P
Douglas Lesquerella								
Lesquerella humilis	Brassicaceae	G1	<b>S</b> 1		S		RAVA	SE
Bitterroot Bladderpod								
Lesquerella lesicii	Brassicaceae	G1	<b>S</b> 1			S	CARB	SE
Lesica's Bladderpod								
Lesquerella paysonii	Brassicaceae	G3	<b>S</b> 1		S		BEAV, GRAN	RE
Payson Bladderpod								
Lesquerella pulchella	Brassicaceae	G2	S2		S	S	BEAV	SE
Beautiful Bladderpod								
Lewisia columbiana var wallowensis	Portulacaceae	G4T4	<b>S</b> 1				RAVA	RE
Columbia Lewisia								

Scientific	Name
------------	------

Common Name	Family	Global Rank	State Rank	FS Status	BLM Status	<b>County Distribution</b>	Range Notes
Lewisia pygmaea var nevadensis	Portulacaceae	G4	S1			BEAV, DEER, RAVA	P
Nevada Bitterroot							
Lilaea scilloides	Juncaginaceae	G5?	<b>S</b> 1			LAKE	P
Flowering Quillwort							
Liparis loeselii	Orchidaceae	G5	<b>S</b> 1	S		LAKE	P
Loesel's Twayblade							
Lobelia spicata	Campanulaceae	G5	<b>S</b> 1			RICH, SHER	P
Pale-spiked Lobelia							
Lomatium attenuatum	Apiaceae	G3	S2		S	BEAV, MADI	RE
Taper-tip Desert-parsley							
Lomatium geyeri	Apiaceae	G3G4	<u>S2</u>	S		LINC	RE
Geyer's Biscuitroot							
Lomatium nuttallii	Apiaceae	G3	<b>S</b> 1		W	BIGH	P
Nuttall Desert-parsley							
Lomatogonium rotatum	Gentianaceae	G5	<b>S</b> 1	S	W	BEAV	S
Felwort							
Lycopodium dendroideum	Lycopodiaceae	G5	<b>S</b> 1	S		FLAT, GLAC, LINC	P
Treelike Clubmoss							
Lycopodium inundatum	Lycopodiaceae	G5	<b>S</b> 1	S		FLAT, MISS	P
Northern Bog Clubmoss							
Lycopodium lagopus	Lycopodiaceae	G?	<b>S</b> 1			GLAC	P
Running Pine							
Lycopodium sitchense	Lycopodiaceae	G5	S3	S		FLAT, LINC	P
Alaskan Clubmoss							
Maianthemum canadense var interius	Liliaceae	G5T4	SH			CART	P
Wild Lily-of-the-valley							
Malacothrix torreyi	Asteraceae	G4	<b>S</b> 1		S	CARB	D
Desert Dandelion							
Mentzelia montana	Loasaceae	G4	SH			CUST	P
White-bract Stickleaf							

Scientific Name			State	FWS	FS	BLM		Range
Common Name	Family	Global Rank			Status		<b>County Distribution</b>	Notes
Mentzelia nuda	Loasaceae	G5	<b>S</b> 1			W	CUST, DAWS, POWD, VALL	P
Bractless Mentzelia								
Mentzelia pumila	Loasaceae	G4	S2			W	CARB	P
Dwarf Mentzelia								
Mertensia bella	Boraginaceae	G4	<b>S</b> 1		S		MISS	D
Oregon Bluebells								
Mimulus breviflorus	Scrophulariaceae	G4	<b>S</b> 1				FLAT	P
Short-flowered Monkeyflower								
Mimulus nanus	Scrophulariaceae	G5	<b>S</b> 1				GALL, RAVA	P
Dwarf Purple Monkeyflower								
Mimulus patulus	Scrophulariaceae	G2Q	<b>S</b> 1		S		FLAT, MISS	D
Washington Monkeyflower								
Mimulus primuloides	Scrophulariaceae	G4	S2		S		BEAV, RAVA	P
Primrose Monkeyflower								
<u>Mimulus ringens</u>	Scrophulariaceae	G5	<b>S</b> 1					P
Square-stem Monkeyflower								
Najas guadalupensis	Najadaceae	G5	<b>S</b> 1			W	CASC, FLAT, LAKE, RAVA	P
Guadalupe Water-nymph								
Nama densum	Hydrophyllaceae	G5	<b>S</b> 1			S	CARB	P
Nama								
Nuttallanthus texanus	Scrophulariaceae	G4G5	<b>S</b> 1			W	CART, DAWS	P
Blue Toadflax								
Nymphaea tetragona ssp leibergii	Nymphaeaceae	G5T5	<b>S</b> 1				FLAT, LAKE, MISS	D
Pygmy Water-lily								
Oenothera pallida var idahoensis	Onagraceae	G5T?Q	<b>S</b> 1			S	BEAV	RE
Pale Evening-primrose								
Ophioglossum pusillum	Ophioglossaceae	G5	S2		S		FLAT, LAKE, LINC, MISS	S
Adder's Tongue								
Orogenia fusiformis	Apiaceae	G5	S2		S		BEAV, MADI, MISS, RAVA	P
Tapered-root Orogenia								

Scientific	Name
------------	------

Common Name	Family	Global Rank	State Rank	FWS Status	FS Status	BLM Status	<b>County Distribution</b>	Range Notes
Oxytropis campestris var columbiana	Fabaceae	G5T3	S1		S		LAKE	RE
Columbia Crazyweed								
Oxytropis deflexa var foliolosa	Fabaceae	G5T?	<b>S</b> 1				MADI	S
Pendent-pod Crazyweed								
Oxytropis parryi	Fabaceae	G5	<b>S</b> 1				BEAV	P
Parry's Crazyweed								
Oxytropis podocarpa	Fabaceae	G4	S1		S		GLAC, TETO	S
Stalked-pod Crazyweed								
Papaver kluanensis	Papaveraceae	G3G4Q	<b>S</b> 1				CARB, PARK, SWEE	S
Alpine Poppy								
Papaver pygmaeum	Papaveraceae	G3	<b>S</b> 3				FLAT, GLAC	RE
Alpine Glacier Poppy								
Penstemon angustifolius	Scrophulariaceae	G5	<b>S</b> 2			W	CART, DAWS, MISS	P
Narrowleaf Penstemon								
Penstemon attenuatus var militaris	Scrophulariaceae	G4T4	<b>S</b> 1				RAVA	RE
Taper-leaved Beardtongue								
Penstemon globosus	Scrophulariaceae	G4	S2				GRAN	P
Globe Beardtongue								
Penstemon grandiflorus	Scrophulariaceae	G5?	<b>S</b> 1				CUST	P
Large Flowered Beardtongue								
Penstemon lemhiensis	Scrophulariaceae	G3	S2		S	S	BEAV, DEER, RAVA, SILV	RE
Lemhi Beardtongue								
Penstemon payettensis	Scrophulariaceae	G4	<b>S</b> 1		S		RAVA	RE
Payette Beardtongue								
Penstemon whippleanus	Scrophulariaceae	G5	<b>S</b> 1			S	BEAV, MADI	P
Whipple's Beardtongue								
Petasites frigidus var nivalis	Asteraceae	G5T?	<b>S</b> 1		S		FLAT, GLAC	P
Palmate-leaved Coltsfoot								
Phacelia incana	Hydrophyllaceae	G3G4	S2			W	BEAV	P
Hoary Phacelia								

Scientific Name
-----------------

			Status	Status	Similar	<b>County Distribution</b>	Notes
Iydrophyllaceae	G4	SH			W	MADI, SILV	D
lydrophyllaceae	G3G4	<b>S</b> 1			W	FERG, GARF, PHIL	D
oaceae	G5	S2				CARB, STIL	D
olemoniaceae	G4	S2			W	CART, DAWS, POWD, ROSE, SHER	P
olemoniaceae	G2	S2		S		CASC, GRAN, JUDI, LEWI, MEAG,	SE
						MISS, POWE	
rassicaceae	G5	<u>S2</u>				CART, PETR, POWD	RE
rassicaceae	G5T2	<u>S1</u>				BIGH	RE
oraginaceae	G4	<b>S</b> 1			W	CUST, GLAC, PHIL	D
oaceae	G4	<b>S</b> 1			W	CARB	P
oaceae	G5?T1	<b>S</b> 1				GLAC	D
olygonaceae	G5T4	S2S3		S		BROA, FLAT, LEWI, MADI, PARK,	S
						POND, TETO	
Pryopteridaceae	G4	<b>S</b> 1				DEER, FLAT, LAKE, MISS	P
Pryopteridaceae	G5	<b>S</b> 1				RAVA, SAND	P
otamogetonaceae	G5	S2		S		FLAT, GLAC, LAKE, MISS	P
losaceae	G4	<b>S</b> 1				MADI	RE
	Hydrophyllaceae Hydrophyllaceae Poaceae Polemoniaceae Brassicaceae Brassicaceae Boraginaceae Poaceae Polyopteridaceae Dryopteridaceae Potamogetonaceae Rosaceae	Hydrophyllaceae G3G4 Poaceae G5 Polemoniaceae G4 Polemoniaceae G2 Brassicaceae G5 Brassicaceae G5 Brassicaceae G4 Poaceae G4 Poaceae G4 Poaceae G57T1 Polygonaceae G5 Potamogetonaceae G5 Potamogetonaceae G5	Aydrophyllaceae G3G4 S1 Poaceae G5 S2 Polemoniaceae G4 S2 Polemoniaceae G2 S2 Polemoniaceae G5 S1 Polemoniaceae G5 S2	Hydrophyllaceae G3G4 S1 Poaceae G5 S2 Polemoniaceae G4 S2 Polemoniaceae G2 S2 Brassicaceae G5 S2 Brassicaceae G5 S2 Brassicaceae G5 S1 Poaceae G4 S1 Poaceae G5?T1 S1 Polygonaceae G5T4 S2S3 Poryopteridaceae G5 S1 Poryopteridaceae G5 S1 Potamogetonaceae G5 S2	Alydrophyllaceae G3G4 S1 Poaceae G5 S2 Polemoniaceae G4 S2 Polemoniaceae G2 S2 S Brassicaceae G5 S2 Brassicaceae G5 S2 Brassicaceae G5 S1 Poaceae G4 S1 Poaceae G57T1 S1 Polygonaceae G5T4 S2S3 S Pryopteridaceae G5 S1 Potamogetonaceae G5 S2 S	Alydrophyllaceae G3G4 S1 W  Poaceae G5 S2  Polemoniaceae G4 S2 W  Polemoniaceae G5 S2  Brassicaceae G5 S2  Brassicaceae G5 S2  Brassicaceae G5 S1  Boraginaceae G4 S1 W  Poaceae G4 S1 W  Poaceae G5771 S1  Polygonaceae G5 S2  Poryopteridaceae G5 S1  Poryopteridaceae G5 S1  Poryopteridaceae G5 S2  Potamogetonaceae G5 S2 S	Hydrophyllaceae G3G4 S1 W FERG, GARF, PHIL  Poaceae G5 S2 CARB, STIL  W CART, DAWS, POWD, ROSE, SHER  Polemoniaceae G2 S2 S CASC, GRAN, JUDI, LEWI, MEAG, MISS, POWE  Grassicaceae G5 S2 CART, PETR, POWD  Brassicaceae G5 S1 BIGH  W CUST, GLAC, PHIL  Poaceae G4 S1 W CARB  Polygonaceae G571 S1 GLAC  Polygonaceae G5 S2 S BROA, FLAT, LEWI, MADI, PARK, POND, TETO  Dryopteridaceae G5 S1 RAVA, SAND  Potamogetonaceae G5 S2 S FLAT, GLAC, LAKE, MISS

Scientific Name Common Name			State	FWS	FS	BLM		Range
Common Name	Family	Global Rank	Rank	Status	Status	Status	County Distribution	Notes
Potentilla hyparctica	Rosaceae	G4G5	<b>S</b> 1				CARB	S
Low Arctic Cinquefoil								
Potentilla plattensis	Rosaceae	G4	<b>S</b> 1			W	BEAV, BIGH, CARB	S
Platte Cinquefoil								
Potentilla quinquefolia	Rosaceae	G5T4	S2		S		FLAT, GLAC, MADI, POND, VALL,	S
Five-leaf Cinquefoil							YNPK	
Potentilla uniflora	Rosaceae	G5	<b>S</b> 1				CARB, FLAT, GLAC, GRAN	S
One-flowered Cinquefoil								
Primula alcalina	Primulaceae	G1	SX			W	BEAV	RE
Idaho Primrose								
Primula incana	Primulaceae	G4G5	S2			W	BEAV, BROA, CARB, DEER, GALL,	P
Mealy Primrose							JEFF, MADI, SHER, TETO	
Prunus pumila	Rosaceae	G5	<b>S</b> 1				FALL, MCCO	P
Sand Cherry								
Psilocarphus brevissimus var brevissimus	Asteraceae	G5T?	S2		S	W	CASC, PETR, PHIL, SAND	S
Dwarf Woolly-heads								
Psoralea hypogaea	Fabaceae	G5T4	S2			W	CART, CASC, CHOU, FERG, GOLD,	P
Little Indian Breadroot							POWD, ROSE	
Puccinellia lemmonii	Poaceae	G4	<b>S</b> 1				BEAV	P
Lemmon's Alkaligrass								
Quercus macrocarpa	Fagaceae	G5	<b>S</b> 1			S	CART	P
Bur Oak								
Ranunculus cardiophyllus	Ranunculaceae	G4G5	S2			W	GLAC, SWEE, TOOL	S
Heart-leaved Buttercup								
Ranunculus gelidus	Ranunculaceae	G4	<b>S</b> 1				STIL	D
Arctic Buttercup								
Ranunculus hyperboreus	Ranunculaceae	G5	<b>S</b> 1				DEER, GALL, MADI	P
High-arctic Buttercup								
Ranunculus jovis	Ranunculaceae	G4	S2		S		BEAV, GALL, MADI, PARK	RE
Jove's Buttercup								

Scientific	Name
------------	------

Scientific Name			State	FWS	FS	BLM		Range
Common Name	Family	Global Rank	Rank	Status	Status	Status	<b>County Distribution</b>	Notes
Ranunculus orthorhynchus var platyphyllus	Ranunculaceae	G5T5	<b>S</b> 1				DEER, GRAN, MINE	P
Straightbeak Buttercup								
Ranunculus pedatifidus	Ranunculaceae	G5	<b>S</b> 1			W	FLAT, GLAC, GRAN, LIBE, TOOL	S
Northern Buttercup								
Ranunculus verecundus	Ranunculaceae	G5	S2				DEER, FLAT, GLAC, MADI	S
Timberline Buttercup								
Ribes cognatum	Grossulariaceae	G4Q	<b>S</b> 1				LINC, MINE, SAND	RE
Shinyleaf Gooseberry								
Ribes laxiflorum	Grossulariaceae	G5	<b>S</b> 1				LINC	D
Trailing Black Currant								
Ribes triste	Grossulariaceae	G5	<b>S</b> 1				DEER, GRAN, MINE, RAVA	P
Swamp Red Currant								
Ribes velutinum	Grossulariaceae	G5	<b>S</b> 1				BEAV	P
Desert Goosebery								
Rorippa calycina	Brassicaceae	G3	<b>S</b> 1			W	CASC, CUST, MCCO, YELL	RE
Persistent-sepal Yellow-cress								
Rotala ramosior	Lythraceae	G5	<b>S</b> 1				LAKE, MISS, RAVA	P
Toothcup								
Sagina nivalis	Caryophyllaceae	G5	<b>S</b> 1				GLAC	D
Arctic Pearlwort								
Salix barrattiana	Salicaceae	G5	<b>S</b> 1		S		CARB, GLAC	S
Barratt's Willow								
Salix cascadensis	Salicaceae	G4G5	<b>S</b> 1				GRAN	S
Cascades Willow								
Salix serissima	Salicaceae	G4	S2			W	GLAC, MEAG, TETO	P
Autumn Willow								
Satureja douglasii	Lamiaceae	G4	S2				MISS, RAVA, SAND	P
Yerba Buena								
Saussurea densa	Asteraceae	G3G4	S2				FLAT, LEWI, POND, TETO	RE
Dwarf Saw-wort								
		10						_

Scientific Name
Common Nar

Common Name	Family	Global Rank	State Rank	FWS Status	FS Status	BLM Status	County Distribution	Range Notes
Saussurea weberi	Asteraceae	G2G3	<b>S</b> 1		S		GRAN	D
Weber's Saw-wort								
Saxifraga apetala	Saxifragaceae	G3Q	S2				BEAV, CARB	RE
Tiny Swamp Saxifrage								
Saxifraga hirculus	Saxifragaceae	G5	<b>S</b> 1				CARB	S
Yellow Marsh Saxifrage								
Saxifraga tempestiva	Saxifragaceae	G2	S2		S		BEAV, DEER, GRAN, MADI, RAVA	SE
Storm Saxifrage								
Scheuchzeria palustris	Scheuchzeriaceae	G5	S2		S		FLAT, LAKE, LINC, MISS	P
Pod Grass								
Scirpus cespitosus	Cyperaceae	G5	S2		S		BEAV, FLAT, LINC, POWE, TETO	S
Tufted Club-rush								
Scirpus heterochaetus	Cyperaceae	G5	<b>S</b> 1				PHIL, SHER	S
Slender Bulrush								
Scirpus hudsonianus	Cyperaceae	G5	<b>S</b> 1				FLAT, GLAC	P
Hudson's Bay Bulrush								
Scirpus pumilus ssp rollandii	Cyperaceae	G3Q	<b>S</b> 1				GLAC, TETO	P
Small Clubrush								
Scirpus subterminalis	Cyperaceae	G4G5	S2		S		FLAT, LAKE, LEWI, LINC, MISS	S
Water Bulrush								
Selaginella selaginoides	Selaginellaceae	G5	S2				BEAV, DEER, GRAN, MADI	S
Low Spike-moss								
Senecio amplectens var holmii	Asteraceae	G4T?	S1				CARB	P
Clasping Groundsel								
Senecio pauciflorus	Asteraceae	G4G5	<b>S</b> 1				FLAT, GALL	P
Few-flowered Butterweed								
Shoshonea pulvinata	Apiaceae	G2	<b>S</b> 1		S	S	CARB	RE
Shoshonea								
Sidalcea oregana	Malvaceae	G5	<b>S</b> 1				GALL, LAKE	P
Oregon Checker-mallow								

Scientific	Name
------------	------

Common Name	Family	Global Rank	State Rank	FWS Status	FS Status	BLM Status	County Distribution	Range Notes
Silene spaldingii	Caryophyllaceae	G2	S1	PT			FLAT, LAKE, LINC, SAND	RE
Spalding's Campion								
Sisyrinchium septentrionale	Iridaceae	G3G4	<b>S</b> 1				SHER	P
Northern Blue-eyed Grass								
Solidago ptarmicoides	Asteraceae	G5	<b>S</b> 1				CART, RICH	P
Prairie Aster								
Solidago sparsiflora	Asteraceae	G5?	<b>S</b> 1			W	GARF, STIL	S
Few-flowered Goldenrod								
Sphaeralcea munroana	Malvaceae	G4	<b>S</b> 1				BEAV	P
White-stemmed Globe-mallow								
Sphaeromeria argentea	Asteraceae	G3G4	S2			S	BEAV	P
Chicken Sage								
Sphenopholis intermedia	Poaceae	G5	<u>S1</u>			W	BIGH, GALL	P
Slender Wedgegrass								
Spiranthes diluvialis	Orchidaceae	G2	S2	LT		W	BEAV, GALL, JEFF, MADI	S
Ute Ladies' Tresses								
Sporobolus asper	Poaceae	G5	SH			W	CART, CUST	P
Longleaf Dropseed								
Sporobolus neglectus	Poaceae	G5	SU			W	GALL, SAND, WHEA	P
Small Dropseed								
Stellaria crassifolia	Caryophyllaceae	G5	<b>S</b> 1			W	BEAV, CARB, DEER, MEAG, SAND	P
Fleshy Stitchwort								
Stellaria jamesiana	Caryophyllaceae	G5	S1			W	BEAV	P
James Stitchwort								
Stephanomeria spinosa	Asteraceae	G4	<b>S</b> 1			W	BEAV, MADI	P
Spiny Skeletonweed								
Stipa lettermanii	Poaceae	G5	<b>S</b> 1				BEAV, BIGH, CARB, MADI, PARK	P
Letterman's Needlegrass								
Suckleya suckleyana	Chenopodiaceae	G5	SU				MUSS, ROOS, VALL	P
Poison Suckleya		21						
		21					@ 2001 M . N 111 '.	T)

Scientific	Name
------------	------

Common Name	Family	Global Rank	State Rank	FWS Status	FS Status	BLM Status	<b>County Distribution</b>	Range Notes
Sullivantia hapemanii var hapemanii	Saxifragaceae	G3T3	S2			W	BIGH, CARB	RE
Wyoming Sullivantia								
Taraxacum eriophorum	Asteraceae	G4	S2			S	BEAV, GRAN, MADI, PARK	S
Rocky Mountain Dandelion								
Thalictrum alpinum	Ranunculaceae	G5	S2		S	S	BEAV, DEER	S
Alpine Meadowrue								
Thelypodium paniculatum	Brassicaceae	G2	SH			S	BEAV	RE
Northwestern Thelypody								
Thelypodium sagittatum ssp sagittatum	Brassicaceae	G4T?	S2				BEAV, FLAT, GALL, LAKE	P
Slender Thelypody								
Thelypteris phegopteris	Thelypteridaceae	G5	S2		S		FLAT, GLAC, LINC, SAND	P
Northern Beechfern								
Thlaspi parviflorum	Brassicaceae	G3	S2		S		BEAV, CARB, MADI, PARK, SILV	RE
Small-flowered Pennycress								
Tofieldia pusilla	Liliaceae	G5	S2				GLAC	P
Small Tofieldia								
Townsendia condensata	Asteraceae	G4	S2			W	BEAV, GLAC, MADI, PARK	RE
Cushion Townsendia								
Townsendia florifer	Asteraceae	G5	<b>S</b> 1			W	BEAV, MADI	P
Showy Townsendia								
Trifolium cyathiferum	Fabaceae	G4	<b>S</b> 1				MISS, RAVA	P
Cup Clover								
Trifolium eriocephalum ssp arcuatum	Fabaceae	G4T3?	S2		S		RAVA	P
Woolly-head Clover								
Trifolium gymnocarpon	Fabaceae	G4	S2		S		GRAN, RAVA	P
Hollyleaf Clover								
Utricularia intermedia	Lentibulariaceae	G5	<b>S</b> 1		S		FLAT, MISS, POWE	P
Flat-leaved Bladderwort								
Vaccinium myrtilloides	Ericaceae	G5	<b>S</b> 1				FLAT	P
Velvetleaf Blueberry								

#### Scientific Name

Common Name	Family	Global Rank	State Rank	FS Status	BLM Status	<b>County Distribution</b>	Range Notes
Veratrum californicum	Liliaceae	G5	S1	S	W	GALL, GRAN, LEWI, RAVA	P
California False-hellebore							
Viburnum lentago	Caprifoliaceae	G5	<b>S</b> 1			BIGH, ROOS	P
Nannyberry							
Viguiera multiflora	Asteraceae	G4G5	<b>S</b> 1			BEAV, GALL, MADI, YNPK	P
Many-flowered Viguiera							
<u>Viola selkirkii</u>	Violaceae	G5?	<b>S</b> 1			LINC	P
A209 Selkirk Violet							
Waldsteinia idahoensis	Rosaceae	G3	<b>S</b> 1	S		MISS	RE
Idaho Barren Strawberry							
Wolffia columbiana	Lemnaceae	G5	S2		W	FLAT, LAKE, MISS, RAVA	S
Columbia Water-meal							
Zizia aurea	Apiaceae	G5	SH			JEFF	P
Golden Alexanders							

# **Plant Species of Potential Concern**

June 2001

This comprised the "watch" list in previous publications. It includes species that are relatively common and secure within a very limited range (frequently state or regional endemics), species with unresolved questions regarding their status, and recurrent hybrids. MTNHP does not normally maintain occurrence data on these species, nor include them in data requests or environmental reviews. However, we do gather and maintain file data, including sensitive plant survey forms, maps, and/or collection label data. For those previously considered Species of Concern, we keep computerized occurrence data on file but generally do not computerize new records.

Limited distribution species (49 total) are state and regional endemics and highly disjunct species that are limited to a small area of Montana or to a very restricted habitat, but are too common within that range to be considered at-risk. These taxa are recognized for their biogeographic significance and potential vulnerability to land use changes that have major impacts on the landscape.

**Species of unresolved status** (160 total) need further evaluation or information. The uncertainty about their status fall into one of seven categories:

- <u>Native?</u> whether the species is native to the Montana flora or was introduced by humans
- <u>Vulnerable?</u> whether the species is at risk from human activities
- <u>Data not compiled</u> records for the species in herbaria and publications that have yet to be assembled and evaluated
- <u>Verified?</u> specimens need review and verification, or there are conflicting professional opinions on the identity of Montana specimens
- <u>In MT?</u> the species has been cited for the Montana flora, but we have not been able to locate specimens to verify the report
- <u>Taxonomy</u> there are questions about its validity as a distinct taxon
- <u>Publication</u> the species is new to science and has not yet been documented by publication

More detailed information on species of potential concern is available upon request.

				Unresolved							
Scientific Name	Global Rank	State Rank	Limited Distribution	Native?	Vulnerable?	Data Not Compiled	Verified?	In MT?	Taxonomic validity	Publication	Hybrid
Achillea sibirica	G5?	SA?		1							
Agastache foeniculum	G3G4	SU			1						
Agoseris lackschewitzii	G4	S3	1								
Agrimonia gryposepala	G5	SU			1						
Agrostis borealis	G5	SU			1						
Amaranthus californicus	G4	SU			1						
Ambrosia acanthicarpa	G5	S4			1						
Ambrosia tomentosa	G4	SU			1						
Amsinckia lycopsoides	G?	SA?		1							
Antennaria aromatica	G4	S3S4	1								
Antennaria neodioica ssp neodioica	G4G5T?	SU					1				
Antennaria pulcherrima	G4G5	SU					1				
<u>Arabidopsis salsuginea</u>	G4G5	SU						1			
Arabis pendulocarpa var saximontana	G3QT2T3Q	SU					1				

						Uni	eso	lvec	1		
Scientific Name	Global Rank	State Rank	Limited Distribution	Native?	Vulnerable?	Data Not Compiled	Verified?	In MT?	Taxonomic validity	Publication	Hybrid
Arabis sparsiflora var columbiana	G5TU	SU					1				
Arabis sparsiflora var subvillosa	G5T?	SU					1				
Artemisia longiloba	G5T4	SU						1			
Artemisia tilesii ssp elatior	G5T5	SU					1				
Asplenium trichomanes-ramosum	G4	SU				1					
Aster cusickii	G3?	SU						1			
Aster foliaceus var lyallii	G5T4?	SR				1					
Aster glaucodes	G4G5	SU			1						
Aster simplex var ramosissimus	G5T?	SU						1			
Astragalus chamaeleuce	G5	S3	1								
Astragalus kentrophyta var kentrophyta	G5T4	S3				1					
Astragalus lentiginosus var salinus	G5T5	S3	1								
Astragalus leptaleus	G4	S3	1								
Astragalus miser var crispatus	G5T3?	SU				1					
Astragalus platytropis	G5	S3	1								
Astragalus racemosus var. longisetus	G5T4	SU						1			
Bidens comosa	G5	SU			1						
Bidens frondosa	G5	SU			1						
Bidens vulgata var schizantha	G5T?	SU			1						
Botrychium minganense	G4	S3	1								
Botrychium simplex	G5	SU				1					
Botrychium sp 2	G?	SU								1	
Botrychium sp 3	G?	SU								1	
Botrychium sp 4	G?	SU								1	
Botrychium sp 5	G?	SU								1	
Botrychium x watertonense	HYB	HYB									1
Bouteloua hirsuta	G5	SU						1			
Calamagrostis koelerioides	G5	SA?		1							
Calamagrostis scopulorum	G5	SU					1				
Calamagrostis tweedyi	G3	S3	1								
Camissonia tanacetifolia	G5	SU						1			
Cardamine rupicola	G3	S3	1								
Carex aenea	G5	SU						1			
Carex bigelowii	G5	SU						1			
Carex brunnescens	G5	SU					1				
Carex ebenea	G5	SU					1				
Carex eburnea	G5	SU			1						
Carex jonesii	G5	SU				1					
Carex luzulina var atropurpurea	G5T3	SU			1						
Carex microglochin	G5?	SU				1					
Carex misandra	G5	S3	1								
Carex nelsonii	G3	SU			1						
Carex neurophora	G4	S3			1						
Carex paupercula	G5	S3	1								L
Carex pelocarpa	G4?	SU						1			

						Uni	eso	lved	ł		
Scientific Name	Global Rank	State Rank	Limited Distribution	Native?	Vulnerable?	<b>Data Not Compiled</b>	Verified?	In MT?	Taxonomic validity	Publication	Hybrid
Carex straminiformis	G4	SU						1			
Carex tenera	G5	SU			1						
Carex torreyi	G4	S3			1						
Castilleja crista-galli	G4?	SU						1			
Castilleja nivea	G3	SU	1								
Castilleja pilosa var longispica	G4?T4	S3	1								
Castilleja rustica	G4G5T3T4	S3	1								
Chrysothamnus linifolius	G5	S3			1						
Cirsium pulcherrimum	G5	SU						1			
Claytonia cordifolia	G5	SU				1					
Collomia debilis var camporum	G5T2T3	SU				1					
Conimitella williamsii	G3?	SU				1					
Cordylanthus capitatus	G4	SU				1			1		
Cryptogramma cascadensis	G5	SU				1			-		
Cuscuta pentagona var pentagona	G5T5	SU			1	1					
Cymopterus hendersonii	G5	S1			1				1		
Cypripedium x columbianum	НҮВ	HYB							1		1
Delphinium bicolor ssp calcicola	G4G5T3	S3	1								1
Delphinium burkei	G4G313	SU	1				1				
Delphinium geyeri	G5	SU					1				
Delphinium glaucescens	G3?	SU					1		1		
Draba daviesiae	G3 :	S3	1						1		<u> </u>
	G4T3?	SU	1						1		<u> </u>
Draba lonchocarpa var exigua		S3	1						1		
Draba sp 1	G3G4		1		1						_
Echinacea angustifolia	G4	SU			1						<u> </u>
Elatine americana	G4	SU			1						
Elatine brachysperma	G5	SU			1						_
Elatine californica	G5	SU			1						_
Eleocharis atropurpurea	G4G5	SU						1			<u> </u>
Eleocharis bella	G5	SU							1		
Eleocharis flavescens	G5	SU						1			<u> </u>
Eleocharis xyridiformis	G4Q	SU							1		<u> </u>
Equisetum x ferrissii	HYB	HYB									1
Equisetum x trachyodon	HYB	HYB									1
Erigeron allocotus	G3	S3	1								
Erigeron coulteri	G5	SU			1						<u> </u>
Erigeron flabellifolius	G3	S3	1								<u> </u>
Erigeron flagellaris	G5	SU	ļ		1						<u> </u>
Erigeron lanatus	G3G4	S3	1								$ldsymbol{ld}}}}}}$
Eriogonum capistratum var muhlickii	G4T?	S3	1								
Eriogonum chrysocephalum	GUQ	SU							1		
Eriogonum umbellatum var aureum	G5T?	SU							1		
Eriophorum scheuchzeri	G5	SU						1			
Eriophorum viridicarinatum	G5	S3	1								
Euthamia graminifolia	G5	SU						1			

						Unı	reso	lved	ì		
Scientific Name	Global Rank	State Rank	Limited Distribution	Native?	Vulnerable?	Data Not Compiled	Verified?	In MT?	Taxonomic validity	Publication	Hybrid
Evax prolifera	G5	SU			1						
Festuca subulata	G5	SU				1					
Floerkea proserpinacoides	G5	SU				1					
Galium cymosum	G?	SU						1			
Gentiana aquatica	G4	S3	1								
Gentiana prostrata	G5	SU			1						
Gentianella tenella	G4G5	SU			1						
Geum canadense	G5	SU				1					
Geum rossii var rossii	G5T5	SU						1			
Gilia inconspicua	G5	S3	1								
Gnaphalium purpureum var purpureum	G5TU	SA?	1	1							
Grindelia nana var integrifolia	G5T4	SU SU		1					1		
Halenia deflexa ssp deflexa	G5T5	S3			1				1		
Halimolobos virgata	G4	S3			1						
Haplopappus multicaulis	G4	S2S3	1		1						
Helenium hoopesii	G5	SU	1		1						
Hesperochiron californicus	G4G5	SU			1						
Heterotheca villosa var depressa	G5T3	SU			1			1			$\vdash$
Hierochloe alpina	G5	SU						1			⊢
Hierochloe odorata	G5	S3				1		1			
Horkelia fusca	G5	SU				1		1			$\vdash$
-	G4?					1		1			<u> </u>
Huperzia haleakalae		SU SU				1					$\vdash$
Hymenopappus filifolius var idahoensis	G5T4						1				⊢
Hymenopappus filifolius var luteus	G5T?	SU			١.		1				⊢
Impatiens aurella	G4?	SU			1						⊢
Impatiens ecalcarata	G3G4	S3			1						_
Ipomopsis congesta ssp pseudotypica	G5T3?	S2S3	1								_
Isoetes lacustris	G5	SU						1			_
Isoetes nuttallii	G4?	SU						1			_
Juncus interior	G4G5	SU					1				_
Juncus triglumis	G5	SU			1						_
Juncus tweedyi	G3Q	SU				1					_
Juncus vaseyi	G5?	SU				1					<u> </u>
<u>Lappula cenchrusoides</u>	G4	SU			1						
Lemna minuta	G4	SU			1						<u> </u>
Lemna valdiviana	G5	SU			1						$oldsymbol{oldsymbol{oldsymbol{eta}}}$
<u>Lesquerella klausii</u>	G3	S3	1								
Ligusticum verticillatum	G4G5	S2S3						1			
Lilium columbianum	G4G5	SU			1						
Lilium philadelphicum	G5	S3			1						
Lobelia kalmii	G5	SU				1					
Lomatium farinosum	G4G5	SU					1				
Lupinus caudatus	G5	SU						1			
Madia minima	G4	S3			1						
Mimulus suksdorfii	G4	S3	1								

						Uni	eso	lved	ł		
Scientific Name	Global Rank	State Rank	Limited Distribution	Native?	Vulnerable?	Data Not Compiled	Verified?	In MT?	Taxonomic validity	Publication	Hybrid
Muhlenbergia montana	G5	SU						1			
Myosotis verna	G5	S3			1						
Navarretia divaricata	G5	SU						1			
Oenothera elata ssp hirsutissima	G5T?	SU					1				
Oryzopsis contracta	G3G4	S3			1						
Oxalis stricta	G5	SA?		1							
Oxytropis besseyi var fallax	G5T3	SU			1						
Oxytropis besseyi var ventosa	G5T3?	SU			1						
Oxytropis lagopus var conjugens	G4G5T3	S3	1								
Pedicularis contorta var rubicunda	G5T3	S3	1								
Pedicularis oederi	G5	S3	1								
Pedicularis pulchella	G3	SU				1					
Pediocactus simpsonii	G4	S3	1								
Pediomelum cuspidatum	G4	SU						1			
Penstemon caryi	G3	S3	1								
Penstemon flavescens	G3	S3	1								
Penstemon montanus var idahoensis	G5T?	SU				1					
Physalis hederifolia var comata	G5?T4?	SU						1			
Physaria saximontana var dentata	G3T3	S3	1								
Physostegia virginiana	G5	SU						1			
Platyschkuhria integrifolia var integrifolia	G5T?	S3	1								
Poa macroclada	G3?Q	SU						1			
Polygonum polygaloides	G4G5	SU			1						
Potentilla concinna var macounii	G5?T1T2	SU						1			
Psoralea hypogaea	G5T4	S2S3			1						
Pyrrocoma integrifolia	G3?	SU				1					
Rubus arcticus	G5	SU			1						
Salix petiolaris	G5	SU						1			
Saxifraga chrysantha	G4	SU	1								
Saxifraga marshallii	G5	S3	1								
Saxifraga subapetala	G3G4Q	SU				1					
Saxifraga tolmiei var ledifolia	G5T5	S3	1								
Scirpus pendulus	G5	SA?		1							
<u>Sedum leibergii</u>	G4?	S3	1								
Selaginella densa var standleyi	G5T?	SU				1					
Senecio congestus	G5	SU			1						
Senecio debilis	G4	S3	1								
Senecio eremophilus var. eremophilus	G5T5	SU			1						
Senecio fuscatus	G4	S3	1								
Senecio hyperborealis	G5	SU							1		
Silene repens	G5	SU			1						
Sparganium androcladum	G4G5	SA?		1							
Sphaeromeria capitata	G3	S2S3	1								
Spiraea x pyramidata	НҮВ	HYB									1
Sporobolus vaginiflorus	G5	SA?		1							

	Unresolved										
Scientific Name	Global Rank	State Rank	Limited Distribution	Native?	Vulnerable?	<b>Data Not Compiled</b>	Verified?	In MT?	Taxonomic validity	Publication	Hybrid
Stanleya tomentosa	G4	S3	1								
Stipa lemmonii var lemmonii	G5T5	SU						1			
Stipa pinetorum	G4	SU			1						
Synthyris canbyi	G3	S3	1								
Synthyris missurica	G4	S3	1								
<u>Teucrium canadense</u>	G5	SU				1					
Thelesperma megapotamicum	G5	SA?		1							
Tillaea aquatica	G5	SU			1						
Townsendia leptotes	G4	SU						1			
Townsendia nuttallii	G3	S2S3	1								
Townsendia spathulata	G3	S3	1								
Tradescantia bracteata	G5	SU					1				
Trisetum x orthochaetum	НҮВ	HYB									1
Vaccinium ovalifolium	G5	SU						1			
Verbena bipinnatifida	G5	SU						1			
Vernonia fasciculata ssp corymbosa	G5T?	SU						1			
Viburnum opulus	G5	SA?		1							
Viola palustris	G5	SU					1				
Viola pedatifida	G5	SU						1			
Viola septentrionalis	G5	SU					1				
Wolffia punctata	G5	S2S3	1								

# **Preliminary Ranks for Nonvascular Plant Species June 2001**

#### **BRYOPHYTES**

The preliminary ranks for rare bryophytes are based on a flora compiled for the U.S. Forest Service by Joe Elliot (1995). Because non-vascular plants are typically so under-represented by collection data, the current focus is on species with the fewest documented Montana records (S1 and SH) and several species of highly restricted habitats. Principle reference collections for Montana bryophytes are the University of Montana (MONTU), Montana State University (MONT), and the U.S. Forest Service's Intermountain Research Station Resource Center Herbarium (MRC) in Missoula. The "counties of distribution" listed here are incomplete because not all Montana collection data has been compiled. Anyone who collects a bryophyte species on this list or one potentially new to the state is

encouraged to submit the Species of Concern Survey Form and map, or send a copy of the collection label information to MTNHP.

#### **LICHENS**

The preliminary ranks for rare lichens are based on a Montana lichen flora being compiled by and status recommendations from McCune and Rosentreter (in progress). Their publication will provide much more information not only on Montana lichens, but also on species of concern and the patterns of rarity exhibited by lichens in Montana. Major reference collections for Montana lichens are located at the University of Montana and Montana State University, in addition to large collections at Oregon State University (OSC),

Boise State University (SRP) and the personal herbarium of R. Rosentreter. Anyone collecting a lichen identified on this list or potentially new to the state is encouraged to submit a MTNHP Survey Form and map, or send a copy of collection label information. Location records for lichens have not yet been entered into the MTNHP databases and are not included below.

#### Selected References

- Conrad, H. S. and P. L. Redfern. 1979. How to know the mosses and liverworts. Wm. C. Brown Co., Dubuque, Iowa. 302 pp.
- Elliott, J. C. Second checklist of Montana mosses (draft). Unpublished report to the U.S. Forest Service. Conservation Biology Research, Helena. 43 pp.
- Elliott, J. C. 1995. Rare mosses, rare habitats.
  Unpublished report for the 1995 Montana Rare
  Plant Conference. Conservation Biology
  Research, Helena, MT. 17 pp.

- Lawton, E. 1971. Keys for the identification of the mosses of the Pacific Northwest (Reprinted from *Moss flora of the Pacific Northwest*). Hattori Botanical Lab., Nichinan, Japan. 66 pp.
- McCune, B. and T. Goward. 1995. Macrolichens of the Northern Rocky Mountains. Mad River Press, Inc. Eureka, CA. 208 pp.
- McCune, B. and R. Rosentreter. In progress. Montana Lichens.
- Schofield, W. B. 1992. Some common mosses of British Columbia. Royal British Columbia Museum, Victoria, B.C. Canada. 394 pp.
- Vitt, D. H., J. E. Marsh and R. B. Bovey. 1988.

  Mosses, lichens and ferns of northwest North
  America. Lone Pine Publishing, Edmonton,
  Alberta, Canada. 296 pp©

#### **Bryophytes**

Scientific Name	Family	Global Rank		FS Status	County Distribution
Aloina brevirostris	Pottiaceae	G3G5	<u>S1</u>		FLAT, LINC
Amblyodon dealbatus	Meesiaceae	G3G5	SH		FLAT
Andreaea blyttii	Andreaeaceae	G5	<b>S</b> 1		SAND
Barbula eustegia	Meteoriaceae	G3?	<b>S</b> 1		N/A
Brachythecium reflexum	Brachytheciaceae	G4G5	<u>S1</u>		FLAT, LINC
Brachythecium turgidum	Brachytheciaceae	G4	<u>S1</u>		N/A
Bryum calobryoides	Bryaceae	G3	<u>S1</u>		FLAT, LAKE
Bryum calophyllum	Bryaceae	G3G5	SH		N/A
Bryum dichotomum	Bryaceae	G5?	<b>S</b> 1		RAVA
Bryum lonchocaulon	Bryaceae	G5?	<b>S</b> 1		N/A
Bryum pallens	Bryaceae	G4G5	<b>S</b> 1		N/A
Bryum schleicheri	Bryaceae	G5?	<b>S</b> 1		GLAC
Callicladium haldanianum	Hypnaceae	G5	SH		N/A
Calliergon richardsonii	Amblystegiaceae	G4	<b>S</b> 1		GLAC
Calliergon trifarium	Amblystegiaceae	G4	<b>S</b> 1		GLAC
Calliergonella cuspidata	Amblystegiaceae	G5	<b>S</b> 1		FLAT
Catoscopium nigritum	Catoscopiaceae	G4G5	<b>S</b> 1		N/A
Cinclidium stygium	Mniaceae	G5	<b>S</b> 1		N/A
Crumia latifolia	Pottiaceae	G3	<b>S</b> 1		N/A
Cynodontium tenellum	Dicranaceae	G3G5Q	SH		N/A

# Bryophytes (cont'd)

Scientific Name	Family	Global Rank	State Rank	FS Status	County Distribution
Dendroalsia abietina	Cryphaeaceae	G4	SH		N/A
Desmatodon cernuus	Pottiaceae	G3G5	SH		N/A
Desmatodon heimii	Pottiaceae	G5	<b>S</b> 1		RAVA
Dichodontium olympicum	Dicranaceae	GU	<b>S</b> 1		N/A
Dicranella grevilleana	Dicranaceae	G2G4	<b>S</b> 1		FLAT, GLAC
Dicranella heteromalla	Dicranaceae	G5?	<b>S</b> 1		FLAT, GLAC
Dicranoweisia cirrata	Dicranaceae	G4	<b>S</b> 1		PARK
Dicranum acutifolium	Dicranaceae	G5?	<b>S</b> 1		RAVA
Dicranum fragilifolium	Dicranaceae	G4G5	<b>S</b> 1		FLAT, GLAC, LAKE
Dicranum spadiceum	Dicranaceae	G5?	<b>S</b> 1		N/A
Didymodon fallax var reflexus	Pottiaceae	G5T5?	<b>S</b> 1		N/A
Didymodon rigidulus var gracilis	Pottiaceae	G5T5?	<b>S</b> 1		N/A
Didymodon vinealis var brachyphyllus	Pottiaceae	G5T?	<b>S</b> 1		RAVA
Distichium inclinatum	Ditrichaceae	G4G5	<b>S</b> 1		GLAC
Ditrichum ambiguum	Ditrichaceae	G4?	SH		FLAT
Drepanocladus cardotti	Amblystegiaceae	G1G2	SH		N/A
Entosthodon rubiginosus	Funariaceae	G1G3	SH		CASC
Eucladium verticillatum	Pottiaceae	G4	<b>S</b> 1		GRAN, POWE
Eurhynchium pulchellum var barnesii	Brachytheciaceae	G5T?	<b>S</b> 1		LAKE, RAVA, SAND
Fabronia pusilla	Fabroniaceae	G5?	<b>S</b> 1		MADI
Fissidens fontanus	Fissidentaceae	G5	<b>S</b> 1		GRAN
Funaria americana	Funariaceae	G2G3	SH		CASC, MEAG
Grimmia brittoniae	Grimmiaceae	G1	<b>S</b> 1	S	FLAT, SAND
Grimmia incurva	Grimmiaceae	G4G5	<b>S</b> 1		RAVA
Grimmia mollis	Grimmiaceae	G3G5	<b>S</b> 1		FLAT
Hamatocaulis vernicosus	Amblystegiaceae	G5	<b>S</b> 1		N/A
Herzogiella striatella	Hypnaceae	G4G5	<b>S</b> 1		N/A
Herzogiella turfacea	Hypnaceae	G4G5	<b>S</b> 1		N/A
Hygroamblystegium noterophilum	Amblystegiaceae	G4	<b>S</b> 1		N/A
Hygrohypnum cochlearifolium	Amblystegiaceae	G4	<b>S</b> 1		LINC
Hypnum callichroum	Hypnaceae	G5?	<b>S</b> 1		N/A
Kiaeria blyttii	Dicranaceae	G5	<b>S</b> 1		FLAT
Kiaeria falcata	Dicranaceae	G5	<b>S</b> 1		N/A
Kiaeria starkei	Dicranaceae	G5	<b>S</b> 1		GLAC
Leucolepis acanthoneuron	Mniaceae	G4	<b>S</b> 1		LINC
Meesia longiseta	Meesiaceae	G4?	<b>S</b> 1		N/A
Meesia triquetra	Meesiaceae	G5	<u>S2</u>	S	CARB, FLAT, GLAC,
					LAKE, LINC, RAVA, TETO
Meesia uliginosa	Meesiaceae	G4	<b>S</b> 1		FLAT, GLAC
Mielichhoferia macrocarpa	Bryaceae	G2	<b>S</b> 1		N/A
Myurella tenerrima	Pterigynandraceae	G3G4	<b>S</b> 1		GLAC
Neckera douglasii	Neckeraceae	G4	<b>S</b> 1		FLAT, LAKE
Neckera pennata	Neckeraceae	G5	<b>S</b> 1		N/A
Oligotrichum aligerum	Polytrichaceae	G5	<b>S</b> 1		LINC
Orthotrichum praemorsum	Orthotrichaceae	G?	<b>S</b> 1		RAVA
Oxystegus tenuirostris	Pottiaceae	G5	SH		N/A
Paludella squarrosa	Meesiaceae	G3G5	<b>S</b> 1		CARB, GLAC
Paraleucobryum enerve	Dicranaceae	G5?	<b>S</b> 1		GLAC
Paraleucobryum longifolium	Dicranaceae	G5	<b>S</b> 1		FLAT

# Bryophytes (cont'd)

Scientific Name	Family	Global Rank	State Rank	FS Status	<b>County Distribution</b>
Phascum cuspidatum	Pottiaceae	G5	S1		RAVA
Physcomitrium hookeri	Funariaceae	G2G4	SH		N/A
Physcomitrium pyriforme	Funariaceae	G5	SU		RAVA
Plagiobryum demissum	Bryaceae	G3G5	<b>S</b> 1		N/A
Plagiobryum zieri	Bryaceae	G3G4	<b>S</b> 1		N/A
Platyhypnidium riparioides	Brachytheciaceae	G5	<b>S</b> 1		LINC
Pohlia drummondii	Bryaceae	G3G4	<b>S</b> 1		N/A
Pohlia obtusifolia	Bryaceae	G2G4	<b>S</b> 1		N/A
Pohlia vexans	Bryaceae	GU	SH		MEAG
Porotrichum bigelovii	Thamnobryaceae	G4	<b>S</b> 1		RAVA
Pseudocalliergon turgescens	Amblystegiaceae	G3G5	<b>S</b> 1		FLAT
Pseudocrossidium obtusulum	Pottiaceae	G?	<b>S</b> 1		RAVA
Pterygoneurum lamellatum	Pottiaceae	G3G5	<b>S</b> 1		N/A
Ptychomitrium gardneri	Ptychomitriaceae	G4	<b>S</b> 1		N/A
Racomitrium aquaticum	Grimmiaceae	G2G4	<b>S</b> 1		N/A
Racomitrium brevipes	Grimmiaceae	G?	<b>S</b> 1		N/A
Racomitrium pygmaeum	Grimmiaceae	G?	<b>S</b> 1		LINC
Sarmenthypnum sarmentosum	Amblystegiaceae	G4G5	<b>S</b> 1		N/A
Schistostega pennata	Schistostegaceae	G4	<b>S</b> 1		N/A
Scorpidium scorpioides	Amblystegiaceae	G4G5	<u>S2</u>	S	FLAT, GLAC, LAKE, LEWI, LINC, MISS, TETO
Seligeria donniana	Seligeriaceae	G4G5	<b>S</b> 1		N/A
Sphagnum centrale	Sphagnaceae	G5	<b>S</b> 1		FLAT
Sphagnum compactum	Sphagnaceae	G5	<b>S</b> 1		GRAN
Sphagnum contortum	Sphagnaceae	G5	<b>S</b> 1		FLAT
Sphagnum fallax	Sphagnaceae	G5	<b>S</b> 1		N/A
Sphagnum fimbriatum	Sphagnaceae	G5	<b>S</b> 1		LEWI
Sphagnum girgensohnii	Sphagnaceae	G5	<b>S</b> 1		N/A
Sphagnum magellanicum	Sphagnaceae	G5	<b>S</b> 1		FLAT, MISS, RAVA
Sphagnum mendocinum	Sphagnaceae	G4	<b>S</b> 1		MISS
Sphagnum platyphyllum	Sphagnaceae	G5	<b>S</b> 1		N/A
Sphagnum riparium	Sphagnaceae	G5	<b>S</b> 1		MISS
Sphagnum subnitens	Sphagnaceae	G5	<b>S</b> 1		N/A
Sphagnum wulfianum	Sphagnaceae	G5	<b>S</b> 1		N/A
Stegonia latifolia	Pottiaceae	G3G5	<b>S</b> 1		N/A
Tayloria acuminata	Splachnaceae	G3G4	SH		N/A
Tayloria lingulata	Splachnaceae	G3G5	<b>S</b> 1		GLAC
Tayloria serrata	Splachnaceae	G4	<b>S</b> 1		MADI
Thamnobryum neckeroides	Thamnobryaceae	G?	SH		N/A
Tortula bartramii	Pottiaceae	G2G4	<b>S</b> 1		RAVA
Tortula muralis	Pottiaceae	G5	<b>S</b> 1		RAVA
Tortula norvegica	Pottiaceae	G5	<b>S</b> 1		GLAC, LAKE, MADI
Tortula papillosa	Pottiaceae	G5	<b>S</b> 1		RAVA, SAND
Warnstorfia exannulata	Amblystegiaceae	G5	<b>S</b> 1		N/A

# Lichens

		Global	State	
Scientific Name	Family	Rank		FS Status
Acarospora scabrida	Acarosporaceae	G3G5	S1	ro status
Adelolecia pilati	Bacidiaceae	G2G4	S1	
Alectoria nigricans	Alectoriaceae	G2G4 G5	S1	
Alectoria ingricans Alectoria vexillifera	Alectoriaceae	G?	S2	
	Parmeliaceae	G?	S2 S1	
Arctoparmelia subcentrifuga		G2G4	S1	
Aspicilia arctica	Hymeneliaceae			
Aspicilia fruticulosa	Hymeneliaceae	G3	S1	
Aspicilia myrinii	Hymeneliaceae	G5	S1	
Bacidia auerswaldii	Bacidiaceae	G?	S1	
Bacidia granosa	Bacidiaceae	G?	S1	
Bacidia vermifera	Bacidiaceae	G2G4	S1	
Bryonora castanea	Lecanoraceae	G3G5	S1	
Bryoria friabilis	Parmeliaceae	G3	S2	
Bryoria implexa	Parmeliaceae	G?	S1	
Bryoria nadvornikiana	Parmeliaceae	G?	<b>S</b> 1	
Bryoria simplicior	Parmeliaceae	G?	S2	
Bryoria tortuosa	Parmeliaceae	G?	S1	
Buellia badia	Physciaceae	G3?	S1	
Cetraria subalpina	Parmeliaceae	G3?	S2	SENSITIVE
Chaenotheca cinerea	Coniocybaceae	G?	S1	
Chaenotheca subroscida	Coniocybaceae	G?	<b>S</b> 1	
Cladina mitis	Cladoniaceae	G5	<b>S</b> 1	
Cladina rangiferina	Cladoniaceae	G5	<b>S</b> 1	
Cladonia botrytes	Cladoniaceae	G5	<b>S</b> 1	
Cladonia digitata	Cladoniaceae	G3G5	<b>S</b> 1	
Cladonia transcendens	Cladoniaceae	G5	<b>S</b> 1	
Cladonia uncialis	Cladoniaceae	G3G5	<b>S</b> 1	
Cliostomum leprosum	Bacidiaceae	G?	<b>S</b> 1	
Collema curtisporum	Collemataceae	G3	S2	SENSITIVE
Collema polycarpon	Collemataceae	G?	S2	
Cornicularia normoerica	Usneaceae	G3G5	<b>S</b> 1	
Cyphelium karelicum	Caliciaceae	G?	<b>S</b> 1	
Dactylina madreporiformis	Parmeliaceae	G?	S2	
Dactylina ramulosa	Parmeliaceae	G?	S2	
Dimelaena thysanota	Buelliaceae	G?	S1	
Diploschistes diacapsis	Thelotremataceae	G?	<b>S</b> 1	
Endocarpon pulvinatum	Verrucariaceae	G?	S2	
Endocarpon tortuosum	Verrucariaceae	G?	S2	
Euopsis granatina	Lichinaceae	G?	S1	
Evernia divaricata	Parmeliaceae	G?	<b>S</b> 1	
Evernia prunastri	Parmeliaceae	G5	<b>S</b> 3	
Farnoldia micropsis	Porpidiaceae	G?	<b>S</b> 1	
Cetraria cucullata - syn.	1			
Flavocetraria cucullata	Parmeliaceae	G5	S?	
Flavopunctelia flaventior	Parmeliaceae	G5	S1	
Gyalecta foveolaris	Gyalectaceae	G?	S1	
Gyalecta jenensis	Gyalectaceae	G?	S1	
Hypogymnia enteromorpha	Parmeliaceae	G4	S2	
Hypogymnia inactiva	Parmeliaceae	G3	S1	
7 F - 07				

# Lichens (cont'd)

		Global	State	
Scientific Name	Family	Rank		FS Status
Imshaugia aleurites	Parmeliaceae	G5	S1	r 5 Status
Japewia tornoensis	Bacidiaceae	G?	S1	
Lecania fuscella	Bacidiaceae	G?	S1	
	Lecanoraceae	G?	S1	
Lecanora beringii	_		S1	
Lecanora umbrosa	Lecanoraceae	G?		
Lecidea dolodes	Lecideaceae	G?	S2	
Lecidia myriocarpoides	Lecideaceae	G	S1	
Lecidea paddensis	Lecideaceae	G?	S1	
Lecidella effugiens	Lecanoraceae	G?	S1	
Leptogium minutissimum	Collemataceae	G?	S1	
Leptogium tenuissimum	Collemataceae	G?	S2	
Lobaria hallii	Lobariaceae	G4	S2	
Lobaria linita	Lobariaceae	G4	<b>S</b> 1	
Lobaria scrobiculata	Lobariaceae	G3G4	<b>S</b> 1	
Cetraria conmixta - syn.				
Melanelia commixta	Parmeliaceae	G?	<b>S</b> 1	
Melanelia septentrionalis	Parmeliaceae	G3G5	S1	
Micarea ternaria	Micareaceae	G?	S1	
Miriquidica garovaglii	Lecanoraceae	G?	S1	
Bacidia sabuletorum - syn.				
Mycobilimbia sabuletorum	Porpidiaceae	G?	<b>S</b> 1	
Neofuscelia loxodes	Parmeliaceae	G3G5	<b>S</b> 1	
Neofuscelia subhosseana	Parmeliaceae	G?	S2	
Nodobryoria subdivergens - syn.				
Bryoria subdivergens	Parmeliaceae	G2	S2	SENSITIVE
Ophioparma rubricosa	Ophioparmaceae	G?	<b>S</b> 3	
Parmelia fraudans	Parmeliaceae	G?	S1	
Parmelia omphalodes	Parmeliaceae	G2G4	S1	
Parmeliella triptophylla	Pannariaceae	G?	<b>S</b> 1	
Peltula polyspora		G?	<b>S</b> 1	
Pertusaria amara	Pertusariaceae	G?	<b>S</b> 1	
Pertusaria saximontana	Pertusariaceae	G?	<b>S</b> 1	
Pertusaria sommerfeltii	Pertusariaceae	G?	<b>S</b> 1	
Phaeophyscia ciliata	Physciaceae	G4G5	S1	
Phaeophyscia kairamoi	Physciaceae	G3G4	S1	
Phaeorrhiza sareptana	Physciaceae	G?	S1	
Physcia semipinnata	Physciaceae	G5	S1	
Platismatia stenophylla	Parmeliaceae	G2G4	S1	
Pseudocyphellaria anomala	Lobariaceae	G2G4	S1	
Psora rubiformis	Psoraceae	G2G+ G?	S1	
Psorotichia nigra	Lichinaceae	G?	S1	
Psorotichia schaereri	Lichinaceae	G?	S1	
Ramalina farinacea	Ramalinaceae	G3G5	S2	
Ramalina obtusata	Ramalinaceae	G?	S3	
	Ramalinaceae	G2G4	S1	
Ramalina pollinaria	Ramalinaceae			
Ramalina thrausta		G3G5	S3	
Rhizocarpon hochstetteri	Rhizocarpaceae	G?	S1	
Rhizocarpon intermediellum	Rhizocarpaceae	G?	S1	
Rhizocarpon polycarpum	Rhizocarpaceae	G?	S1	
Rhizoplaca haydenii	Lecanoraceae	G?	S1	
Solorina bispora	Peltigeraceae	G3G5	<b>S</b> 1	

<sup>34</sup> 

# Lichens (cont'd)

Scientific NameFamilyRankRank FS StateSolorina octosporaPeltigeraceaeG3G5S1Solorina saccataPeltigeraceaeG3G5S2	tus
r	
Solorina saccata Peltigeraceae G3G5 S2	
Solorina spongiosa Peltigeraceae G3G5 S1	
Sporastatia polyspora Acarosporaceae G? S1	
Stereocaulon paschale Stereocaulaceae G5 S1	
Toninia alutacea Catillariaceae G? S1	
Toninia candida Catillariaceae G? S2	
Toninia ruginosa Catillariaceae G? S2	
Cetraria sepincola - syn.	
Tuckermannopsis sepincola Parmeliaceae G4 S2	
Umbilicaria havaasii Umbilicariaceae G3 S1	
Umbilicaria hirsuta Umbilicariaceae G2G4 S1	
Umbilicaria lambii Umbilicariaceae G2G4 S1	
Umbilicaria muehlenbergii Umbilicariaceae G? S1	
Umbilicaria polyrhiza Umbilicariaceae G2G3 S1	
Usnea cavernosa Parmeliaceae G3G5 S1	
Verrucaria calkinsiana Verrucariaceae G? S1	
Xanthoparmelia angustiphylla Parmeliaceae G5 S1	
Xanthoparmelia montanensis Parmeliaceae G5 S1	

#### **Forest Service Sensitive Plant List**

#### **Threatened**

Howellia aquatilis

#### Sensitive - Vascular

Adoxa moschatellina Agastache cusickii Allium acuminatum Allium parvum Allotropa virgata Amerorchis rotundifolia Antennaria densifolia Aquilegia brevistyla Arabis fecunda Asclepias ovalifolia Astragalus barrii Astragalus lackschewitzii Astragalus scaphoides Athysanus pusillus Balsamorhiza macrophylla Bidens beckii Botrychium ascendens Botrychium crenulatum Botrychium hesperium Botrychium montanum Botrychium paradoxum Botrychium pedunculosum Brasenia schreberi Carex amplifolia Carex chordorrhiza Carex gravida var gravida Carex idahoa Carex livida Carex paupercula Carex prairea Carex rostrata Carex vaginata Castilleja covilleana Castilleja gracillima Castilleja pilosa var longispica Cirsium longistylum Clarkia rhomboidea Claytonia arenicola Cypripedium fasciculatum Cypripedium parviflorum Cypripedium passerinum Drosera anglica Drosera linearis Dryopteris cristata Eleocharis rostellata Elymus innovatus Epipactis gigantea Erigeron asperugineus Erigeron evermannii Erigeron lackschewitzii Eriophorum gracile Eupatorium occidentale Gentianopsis macounii Gentianopsis simplex Glossopetalon nevadense Goodyera repens

Sensitive (cont'd) Haplopappus carthamoides var subsquarrosus Haplopappus macronema var macronema Heteranthera dubia Heterocodon rariflorum Idahoa scapigera Juncus hallii Kalmia polifolia Lathyrus bijugatus Lesquerella humilis Lesquerella paysonii Lesquerella pulchella Liparis loeselii Lomatium geyeri Lomatogonium rotatum Lycopodium dendroideum Lycopodium inundatum Lycopodium sitchense Mertensia bella Mimulus patulus Mimulus primuloides Ophioglossum pusillum Orogenia fusiformis Oxytropis campestris var columbiana Oxytropis podocarpa Penstemon lemhiensis Penstemon payettensis Petasites frigidus var nivalis Phlox kelseyi var missoulensis Polygonum douglasii ssp austinae Potamogeton obtusifolius Potentilla quinquefolia Psilocarphus brevissimus

var brevissimus

Ranunculus jovis Salix barrattiana Salix wolfii var wolfii

Saussurea weberi Saxifraga tempestiva Scheuchzeria palustris

Scirpus cespitosus Scirpus subterminalis Shoshonea pulvinata

Thalictrum alpinum Thelypteris phegopteris Thlaspi parviflorum

Trifolium eriocephalum ssp arcuatum

Trifolium gymnocarpon Utricularia intermedia Veratrum californicum

Viola renifolia

Waldsteinia idahoensis

#### Sensitive -Nonvascular

Bryoria subdivergens Cetraria subalpina Collema curtisporum Grimmia brittoniae Meesia triquetra Scorpidium scorpioides

#### **Bureau of Land Management Sensitive Plant List**

#### Sensitive

Agastache cusickii Arabis fecunda

Astragalus ceramicus var apus

Astragalus geveri

Astragalus geyeri var geyeri

Astragalus scaphoides Astragalus terminalis Camissonia andina

Camissonia parvula Carex crawei

Carex idahoa Cryptantha scoparia

Elymus flavescens Eriogonum salsuginosum

Lesquerella carinata var languida

Lesquerella lesicii

Lesquerella pulchella Lomatium attenuatum Malacothrix torreyi

Nama densum

Oenothera pallida var idahoensis

Penstemon lemhiensis Penstemon whippleanus

Quercus macrocarpa Shoshonea pulvinata

Sphaeromeria argentea Taraxacum eriophorum

Thalictrum alpinum

Thelypodium paniculatum

#### Watch

Adoxa moschatellina Ambrosia acanthicarpa

Amerorchis rotundifolia Arabis demissa var languida

Asclepias ovalifolia Asclepias stenophylla Astragalus aretioides

Astragalus barrii Astragalus convallarius var

convallarius Astragalus oreganus

Astragalus racemosus var

Atriplex truncata Bacopa rotundifolia

Balsamorhiza macrophylla

Bidens comosa

longisetus

Bidens vulgata var schizantha

Carex eburnea

Carex gravida var gravida

Carex multicostata Carex occidentalis

Carex torrevi

Castilleja gracillima Castilleja pilosa var longispica

Ceanothus herbaceus var

pubescens

Celastrus scandens

Centunculus minimus

Cercocarpus montanus var glaber Chenopodium subglabrum

Chrysothamnus linifolius

Cleome lutea

Conioselinum scopulorum Cryptantha fendleri

Cryptantha humilis Cyperus acuminatus

#### Watch (cont'd)

Cyperus schweinitzii Cypripedium parviflorum

Dalea enneandra

Dalea villosa var villosa

Dichanthelium oligosanthes var

scribnerianum Downingia laeta

Draba globosa Eleocharis rostellata Elodea longivaginata

Epipactis gigantea

Erigeron asperugineus

Erigeron formosissimus var viscidus Eupatorium maculatum var bruneri

Eustoma grandiflorum Gentianopsis macounii Gentianopsis simplex Grayia spinosa

Halimolobos virgata Haplopappus carthamoides var

subsquarrosus

Hutchinsia procumbens Leptodactylon caespitosum

Lesquerella klausii Lomatium nuttallii Lomatogonium rotatum

Machaeranthera commixta Mentzelia nuda Mentzelia pumila

Mirabilis hirsuta Najas guadalupensis Nuttallanthus texanus

Oryzopsis contracta Penstemon angustifolius

Phacelia incana Phacelia scopulina Phacelia thermalis Phlox andicola

Plagiobothrys leptocladus

Poa curta

Polygonum polygaloides Potentilla plattensis

Primula alcalina Primula incana

Psilocarphus brevissimus var

brevissimus Psoralea hypogaea Ranunculus cardiophyllus Ranunculus pedatifidus

Rorippa calycina Salix serissima Scirpus cyperinus

Solidago sparsiflora Sphenopholis intermedia Spiranthes diluvialis

Sporobolus asper Sporobolus neglectus

Stellaria crassifolia Stellaria jamesiana

Stephanomeria spinosa Sullivantia hapemanii var

hapemanii

Townsendia condensata Townsendia florifer Townsendia nuttallii Veratrum californicum Viola renifolia Wolffia columbiana

Grindelia howellii

lemhiensis

Halimolobos perplexa var

Haplopappus aberrans

# Plant Species of Concern Survey Form MONTANA NATURAL HERITAGE PROGRAM

MONTANA NATURAL HERITAGE PROGRAM P.O. Box 201800, Helena MT 59620-1800; (406) 444-5354

Scientific name:	Date of survey:/
Observer(s):	
Source of lead or basis for survey (EONum if revisit)_	
<b>LOCATION MAP</b> : Attach a copy of 7. 5' or 15' topograp <b>populations/sub-populations</b> for each species of concern	
County: USG	GS QUAD(s):
TRS, ½, etc.:	
<b>Directions to Site:</b> (Include travel route directions and d	istances to towns, roads, trails, and other geographic features):
	pe:
ocherur desertpion of site and surrounding landscap	~ <u>-</u>
Land use / management:	
SPECIES INFORMATION: Number of individuals:	
(specify estimate or count, and measure - e.g., flowering s	talks, culms, clumps, etc)
Number of subpopulations and subtotals (if applicable)	:
Size of area occupied by population:	
Phenology (% flowering, fruiting, vegetative):	
Evidence of disease, predation, and injury:	
Evidence of reproduction/population structure:	
Comments / other observations:	
HABITAT: (word picture of area occupied by the species	es, noting distinguishing features):

Elevation (mean or range):	ASPECT: N NE E SE S SW W NW
% SLOPE: SLOPE SHAPE: Concave Convex Straight Of	her
Topography: Crest Upper Mid Lower Bottom Comment/Other:	
Moisture: Dry Moist Saturated Inundated Comment/Other:	
Light exposure: Shade Partial shade Open Comment/Other:	
Parent material:	
Soil texture/series:	
Surface cover (%): Basal veg Bare ground Rock Gravel	Litter Moss/Lichen
Plant association: (dominant species, age and structure):	
Canopy cover: TREE (%) SHRUB (%) FORB (%)	GRAMINOID (%)
Associated species (include common, conspicuous, and characteristic spp.):	
Environmental processes (periodic fire, flooding, etc.):	
Anthropogenic disturbance, poss. threats:	
Management suggestions:	
Extent of survey, additional potential habitat in the area:	
DOCUMENTATION: Photograph taken? (photographer and depository):	
Specimen collected? (collection #, and repository):	
Identification (person making determination or reference):	
Ecodata plot number (attach photocopied data sheets):	
Other knowledgeable persons:	
Owner and form/date of permission (if applicable):	